Pensieve header: Tristram-Levine signatures via braid closures. Continued pensieve://Projects/Signatures/.

```
In[∘]:= << KnotTheory`
```

```
Loading KnotTheory` version of February 2, 2020, 10:53:45.2097.
Read more at http://katlas.org/wiki/KnotTheory.
```

```
In[∘]:= K = Knot[3, 1];
K // PD
K // PD // Jones
K // PD // BR
K // PD // BR // PD
K // PD // BR // PD // Jones
```

```
Out[∘]= PD[X[1, 4, 2, 5], X[3, 6, 4, 1], X[5, 2, 6, 3]]
```

Out[∘]= $-\frac{1}{\#1^4}+\frac{1}{\#1^3}+\frac{1}{\#1}$ &

```
Out[∘]= BR[2, {-1, -1, -1}]
```

```
Out[∘]= PD[X[6, 3, 1, 4], X[4, 1, 5, 2], X[2, 5, 3, 6]]
```

Out[∘]= $-\frac{1}{\#1^4}+\frac{1}{\#1^3}+\frac{1}{\#1}$ &

IN[i1, j1, i2, j2] measures the upper-half-plane intersection number of the arrows $i_1 \to j_1$ and $i_2 \to j_2$. IN[1, 3, 2, 4] is +1.

```
In[∘]:= χ[cond_] := If[TrueQ[cond], 1, 0];
IN[i1_, j1_, i2_, j2_] := -χ[i1 > i2] + χ[i1 > j2] + χ[j1 > i2] - χ[j1 > j2];
IN[1, 3, 2, 4]
```

```
Out[∘]= 1
```

SC stands for “Simple Cycle”.

```
In[∘]:= β = Knot[4, 1] // BR
{n = β[[1]], l = Length@β[[2]]}
```

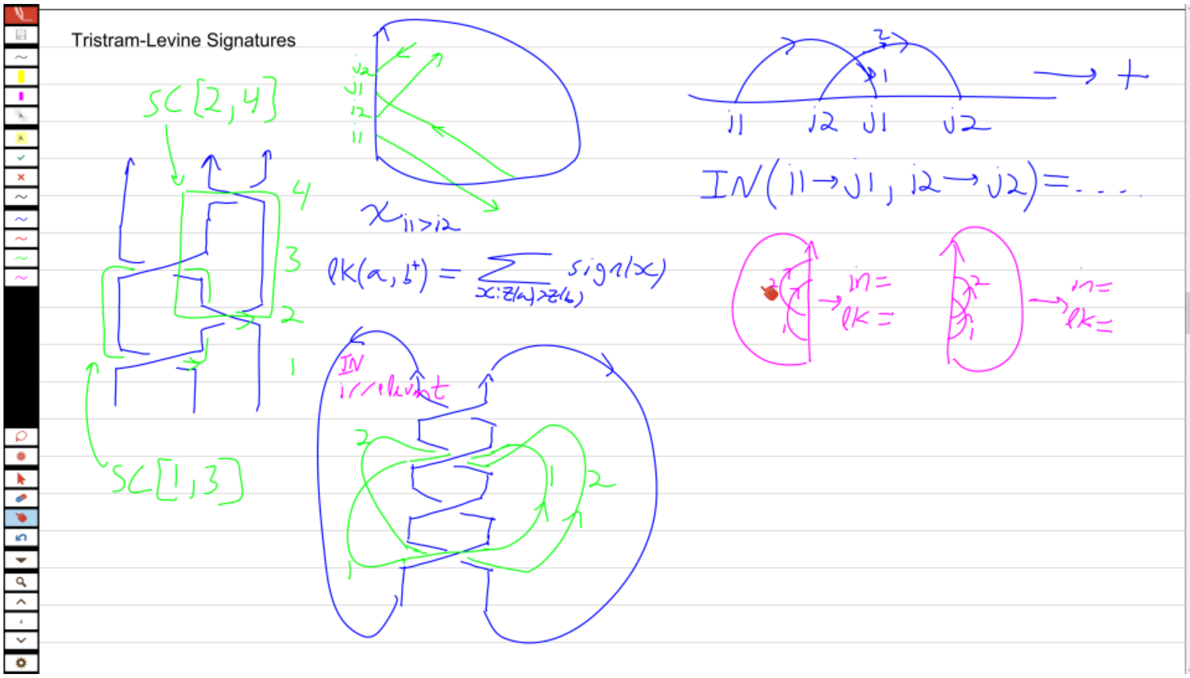
```
Out[∘]= BR[3, {-1, 2, -1, 2}]
```

```
Out[∘]= {3, 4}
```

```
In[∘]:= SCs[β_BR] := Module[{n = β[[1]]},
  Flatten@Table[SC @@@ Subsets[Flatten@Position[Abs[β[[2]]], k], {2}], {k, n - 1}] ]
```

```
In[∘]:= SCs[β]
```

```
Out[∘]= {SC[1, 3], SC[2, 4]}
```




lk[$\beta$, sc1, sc2] computes lk(sc1, sc2$^+$) in $\beta$.

In[∘]:=
```
Clear[a1, a2, a3, a4];
{a1, a2, a3, a4} = {1, 0, -1, -1};
lk[β_BR, SC[i1_, j1_], SC[i2_, j2_]] := Module[
   {n = β⟦1⟧, s1 = Abs@β⟦2, i1⟧, s2 = Abs@β⟦2, i2⟧},
   Which[
    Abs[s2 - s1] > 1, 0,
    s2 - s1 == 1, a1 IN[i1, j1, j2, i2],
    s1 - s2 == 1, a2 IN[i1, j1, j2, i2],
    s1 == s2, a3 IN[i1 + 0.1, j1 + 0.1, i2, j2] +
     a4 (χ[i1 == i2] * χ[β⟦2, i1⟧ > 0] - χ[i1 == j2] * χ[β⟦2, i1⟧ > 0] -
        χ[j1 == i2] * χ[β⟦2, j1⟧ > 0] + χ[j1 == j2] * χ[β⟦2, j1⟧ > 0])
    ]
   ];
Table[lk[β, sc1, sc2], {sc1, SCs[β]}, {sc2, SCs[β]}] // MatrixForm
```

Out[∘]//MatrixForm=

$$\begin{pmatrix} 1 & -1 \\ 0 & -1 \end{pmatrix}$$

SM for Seifert Matrix.

In[∘]:=
```
SM[β_BR] := Module[{n = β⟦1⟧, col, H1},
   H1 = Flatten@Table[
      col = Flatten@Position[Abs[β⟦2⟧], k];
      SC[First@col, #] & /@ Rest[col],
      {k, n - 1}];
   Table[lk[β, sc1, sc2], {sc1, H1}, {sc2, H1}]
  ];
SM[β] // MatrixForm
```

Out[∘]//MatrixForm=

$$\begin{pmatrix} 1 & -1 \\ 0 & -1 \end{pmatrix}$$

In[∘]:=
```
SM[BR@Knot[6, 1]] // MatrixForm
```

Out[∘]//MatrixForm=

$$\begin{pmatrix} 1 & 0 & 0 & 0 \\ 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & -1 \end{pmatrix}$$

In[∘]:=
```
AlexNT[K_] := Module[{sm = SM[BR[K]]}, Det[t sm - Transpose@sm]]
```

In[∘]:=
```
AlexNT[Knot[3, 1]]
```

Out[∘]= $1 - t + t^2$

In[∘]:=
```
Collect[AlexNT[Knot[6, 1]], t]
```

Out[∘]= $-2 t + 5 t^2 - 2 t^3$

In[∘]:=
```
Alexander[Knot[6, 1]][t]
```

Out[∘]= $5 - \frac{2}{t} - 2 t$

In[∘]:=
```
AlexNT[PD@BR[3, {1, 2, 1, 2}]]
```

Out[∘]= $1 - t + t^2$

In[∘]:=
```
Alexander[BR[3, {1, 2, 1, 2}]][t]
```

Out[∘]= $-1 + \frac{1}{t} + t$

In[∘]:=
```
K = Knot[10, 100];
Alexander[K][t]
Collect[AlexNT[K], t]
Simplify[Alexander[K][t] / AlexNT[K]]
```

Out[∘]= $13 + \frac{1}{t^4} - \frac{4}{t^3} + \frac{9}{t^2} - \frac{12}{t} - 12\,t + 9\,t^2 - 4\,t^3 + t^4$

Out[∘]= $1 - 4\,t + 9\,t^2 - 12\,t^3 + 13\,t^4 - 12\,t^5 + 9\,t^6 - 4\,t^7 + t^8$

Out[∘]= $\frac{1}{t^4}$

In[∘]:=
```
Union@Table[Simplify[Alexander[K][t] / AlexNT[K]], {K, AllKnots[]}]
```

Det: Argument {} at position 1 is not a non–empty square matrix.

Out[∘]= $\left\{\frac{1}{t^{21}}, \frac{1}{t^{14}}, \frac{1}{t^{13}}, \frac{1}{t^{12}}, \frac{1}{t^{10}}, \frac{1}{t^9}, \frac{1}{t^8}, \frac{1}{t^7}, \frac{1}{t^6}, \frac{1}{t^5}, \frac{1}{t^4}, \frac{1}{t^3}, \frac{1}{t^2}, \frac{1}{t}, \frac{1}{\mathrm{Det}[\{\}]}\right\}$

In[∘]:=
```
MatrixSignature[M_?MatrixQ] := 2 Length@Select[Eigenvalues[M], # > 0 &] - Length[M]
```

In[∘]:=
```
MatrixSignature /@ {(1 0; 0 1), (1 0; 0 -1), (-1 0; 0 -1)}
```

$$\text{MatrixSignature} \,/@\, \left\{\begin{pmatrix}1 & 0\\ 0 & 1\end{pmatrix}, \begin{pmatrix}1 & 0\\ 0 & -1\end{pmatrix}, \begin{pmatrix}-1 & 0\\ 0 & -1\end{pmatrix}\right\}$$

Out[∘]= {2, 0, -2}

In[∘]:=
```
KSNT[K_] := Module[{M = SM[BR[K]]}, MatrixSignature[M + Transpose[M]]]
```

In[∘]:=
```
KSNT /@ AllKnots[{3, 8}]
```

Out[∘]= {2, 0, 4, 2, 0, 2, 0, 6, 2, -4, -2, 4, 2, 0, 0, 4,
0, 2, -4, 2, -2, 0, 0, -2, 2, 0, 0, 2, 4, 2, 0, 0, -6, 0, 2}

In[∘]:=
```
KnotSignature /@ AllKnots[{3, 8}]
```

Out[∘]= {-2, 0, -4, -2, 0, -2, 0, -6, -2, 4, 2, -4, -2, 0, 0,
-4, 0, -2, 4, -2, 2, 0, 0, 2, -2, 0, 0, -2, -4, -2, 0, 0, 6, 0, -2}

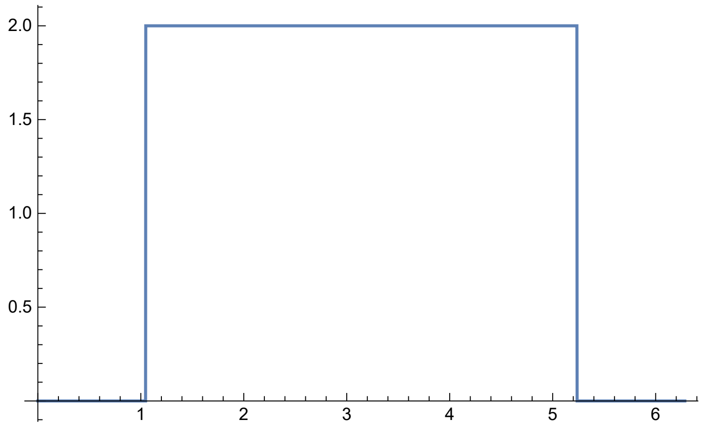
In[∘]:=
```
Union[(KSNT[#] + KnotSignature[#]) & /@ AllKnots[{3, 11}]]
```

Out[∘]= {0}

In[∘]:=
```
TLS[K_, ω_] :=
 Module[{M = SM[BR[K]]}, MatrixSignature[(1 - ω) M + (1 - Conjugate@ω) Transpose[M]]]
```

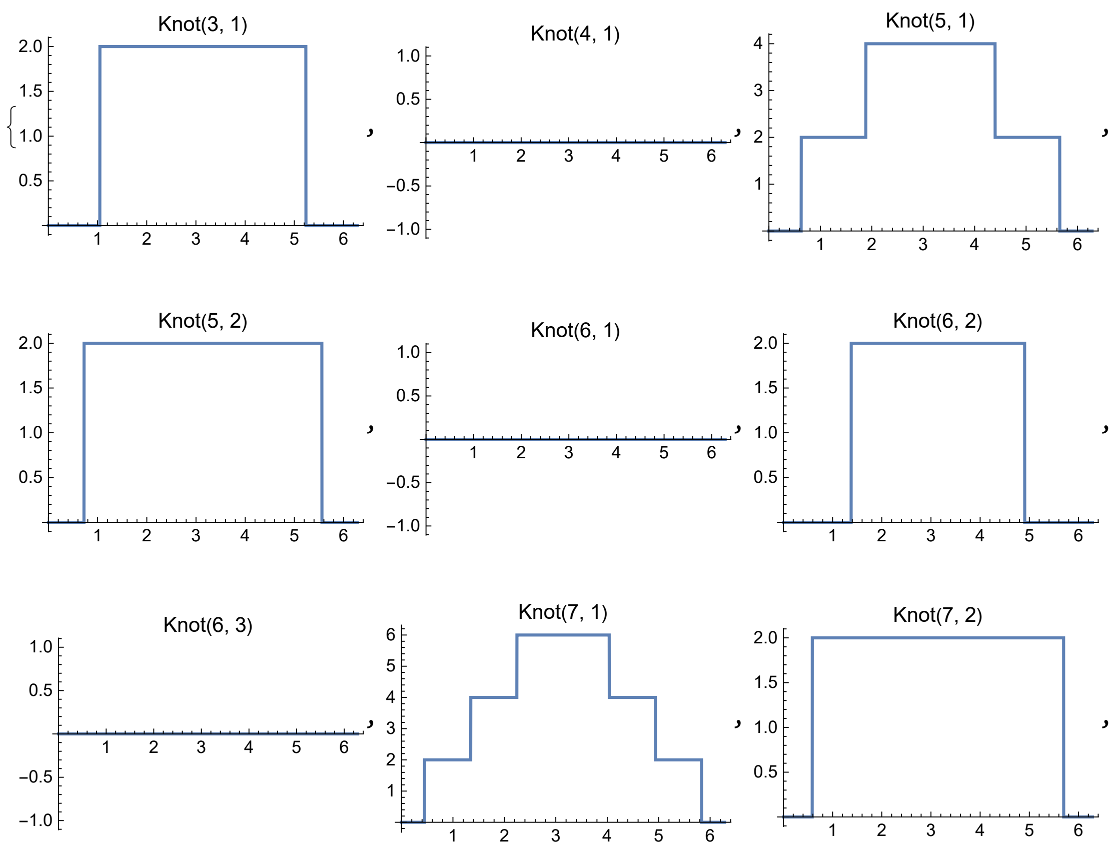
In[∘]:= `K = Knot[3, 1]; Plot[TLS[K, ⅇ^(ⅈ t)], {t, 0, 2 π}]`

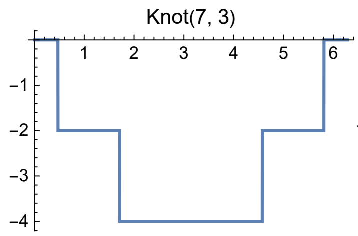
Out[∘]=



In[∘]:= `Table[ Plot[TLS[K, ⅇ^(ⅈ t)], {t, 0, 2 π}, PlotLabel → K], {K, AllKnots[{3, 11}]}]`

Out[∘]=

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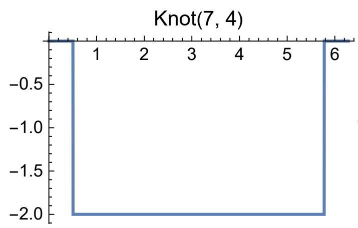
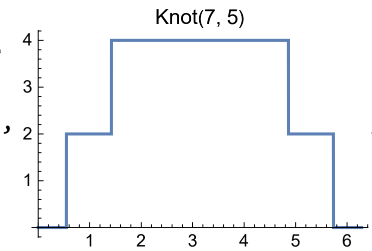
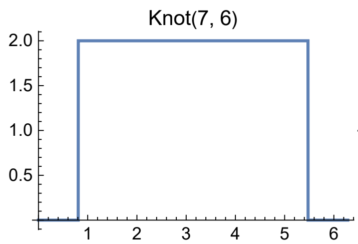
1 2 3 4 5 6
−1 −2 −3 −4
,

Knot(7, 4)
1 2 3 4 5 6
−0.5 −1.0 −1.5 −2.0
,

Knot(7, 5)
4 3 2 1
1 2 3 4 5 6
,

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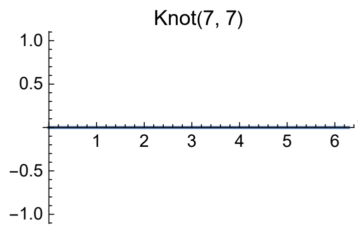
2.0 1.5 1.0 0.5
1 2 3 4 5 6
,

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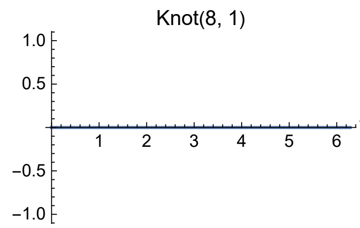
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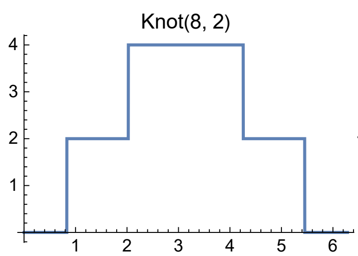
1.0 0.5 −0.5 −1.0
1 2 3 4 5 6
,

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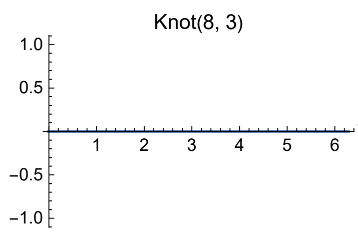
4 3 2 1
1 2 3 4 5 6
,

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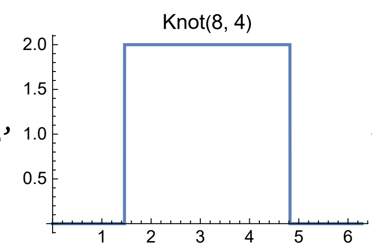
1.0 0.5 −0.5 −1.0
1 2 3 4 5 6
,

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2.0 1.5 1.0 0.5
1 2 3 4 5 6
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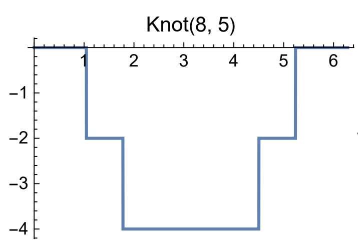
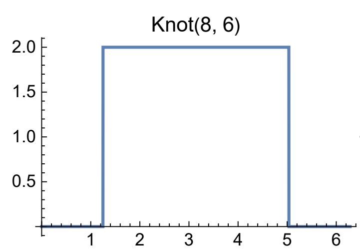

Knot(8, 5)
1 2 3 4 5 6
−1 −2 −3 −4
,

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1 2 3 4 5 6
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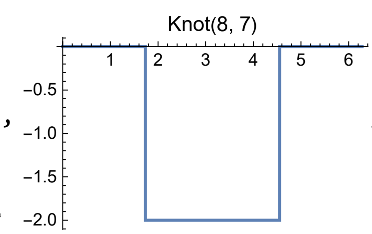
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−0.5 −1.0 −1.5 −2.0
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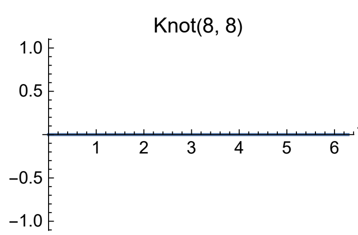
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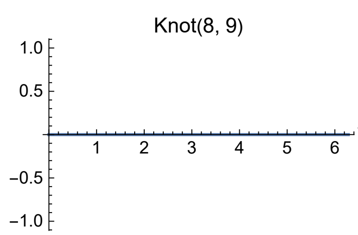
1.0 0.5 −0.5 −1.0
1 2 3 4 5 6
,

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1 2 3 4 5 6
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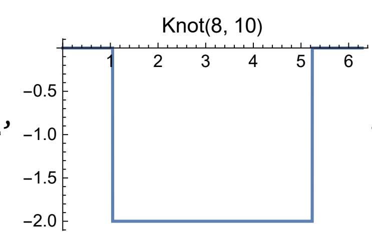
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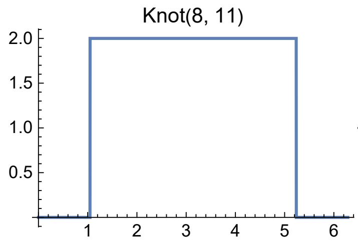
1 2 3 4 5 6
−0.5 −1.0 −1.5 −2.0
,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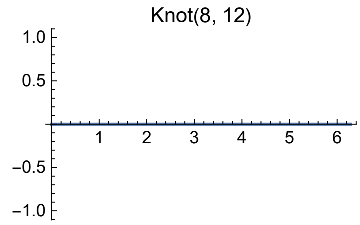
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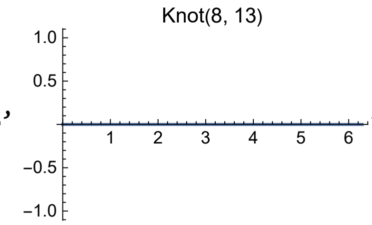
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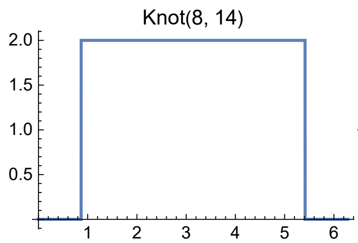
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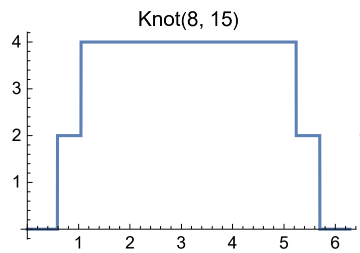
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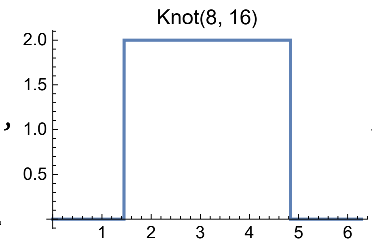
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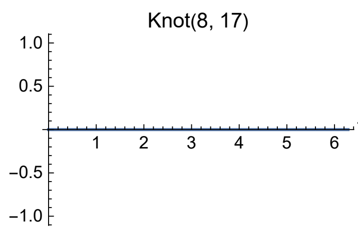
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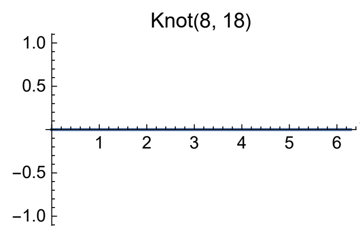
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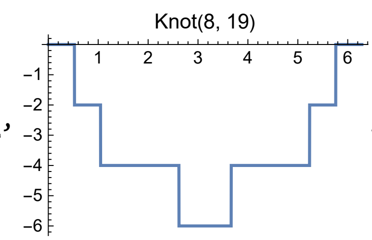
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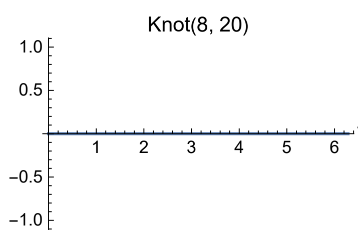
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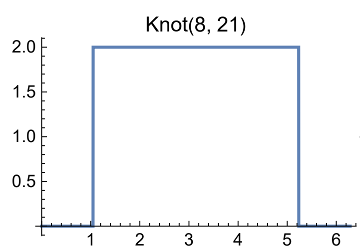
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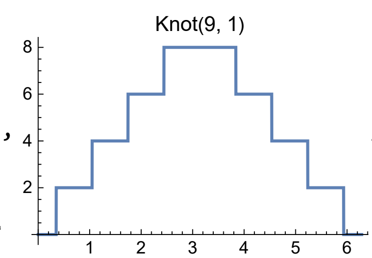
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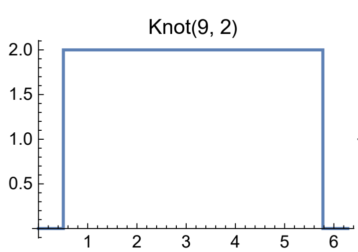
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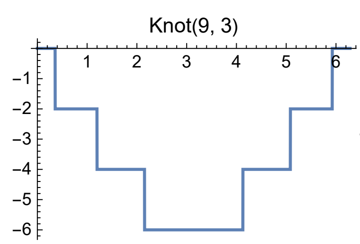
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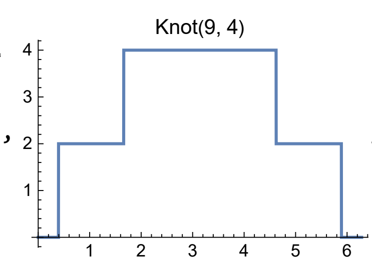
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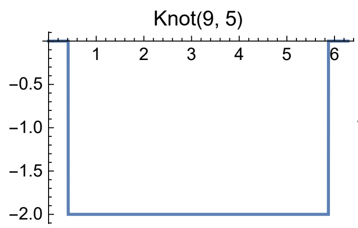
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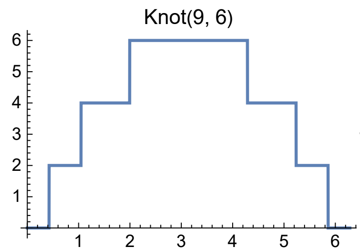
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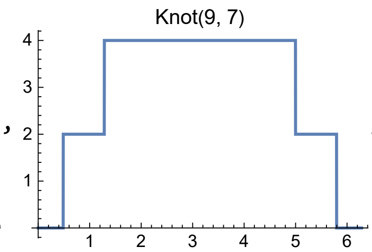
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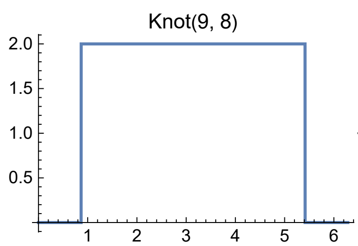
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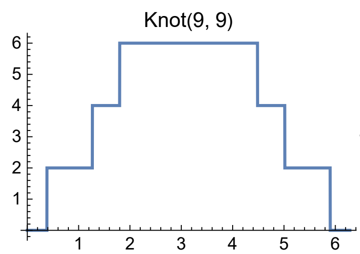
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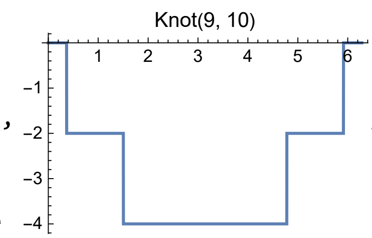
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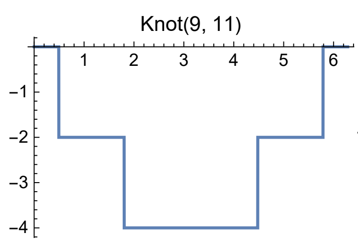
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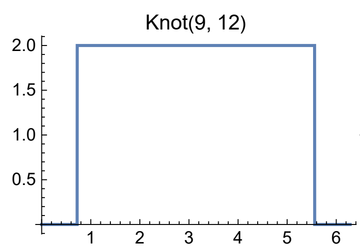
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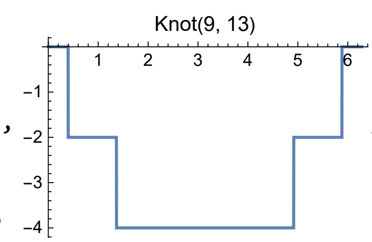
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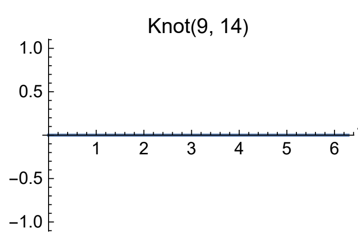
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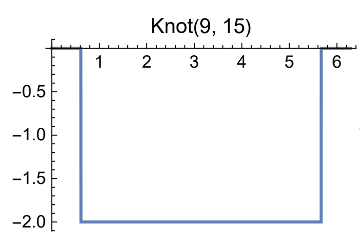
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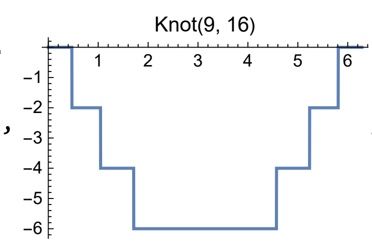
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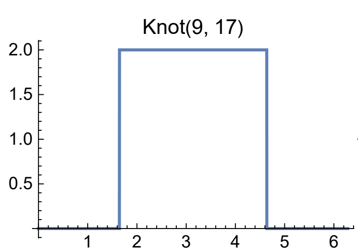
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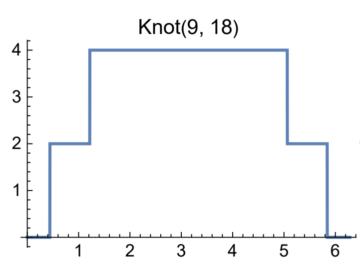
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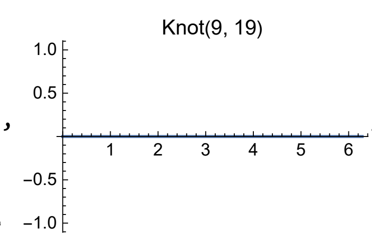
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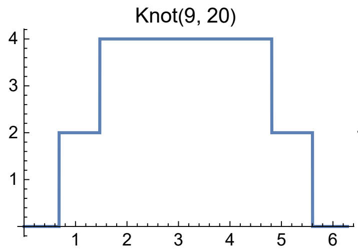
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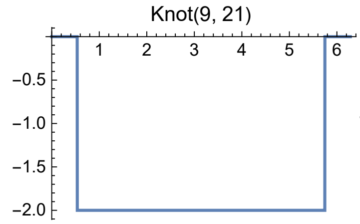
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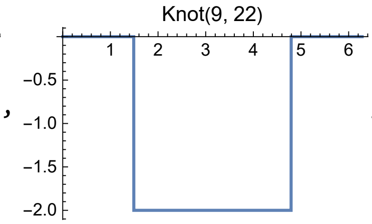
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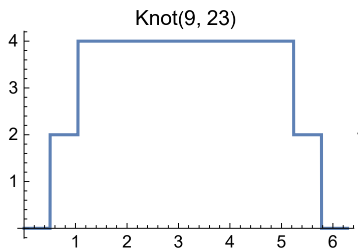
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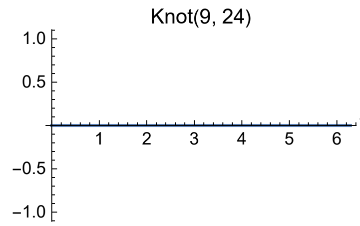
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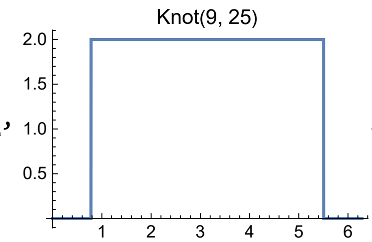
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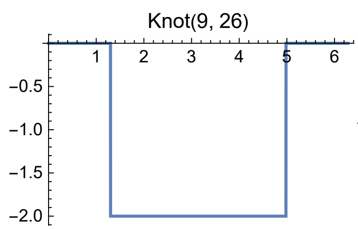
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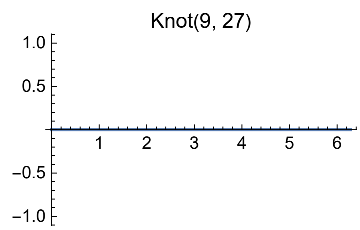
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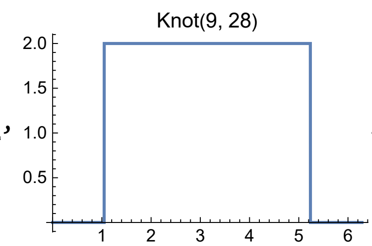
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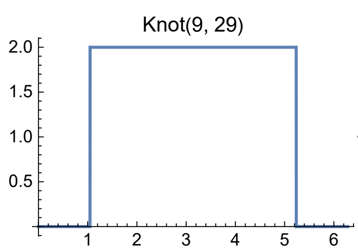
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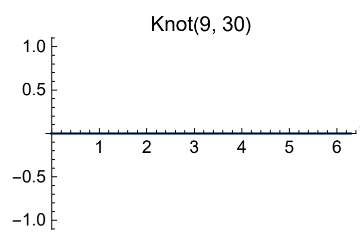
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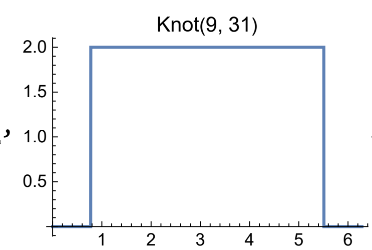
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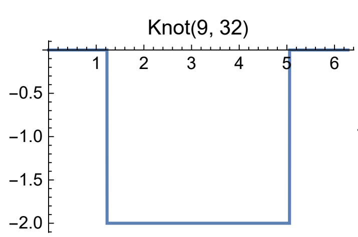
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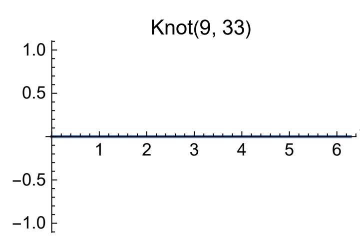
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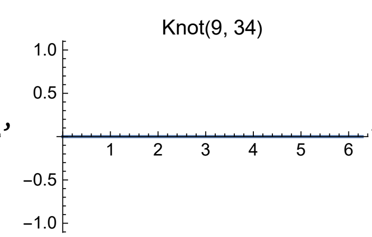
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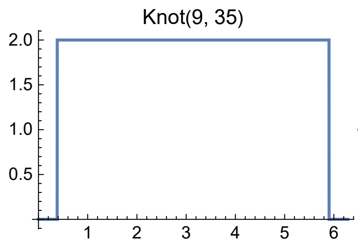
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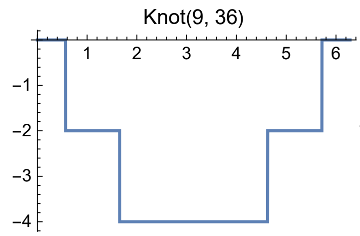
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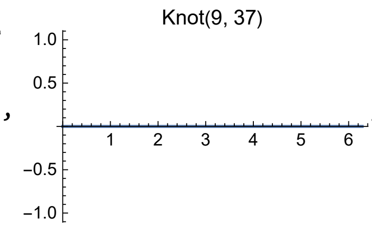
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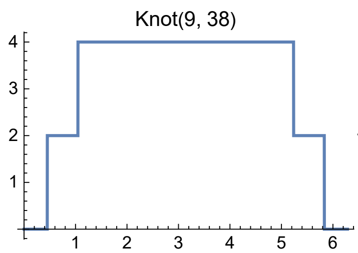
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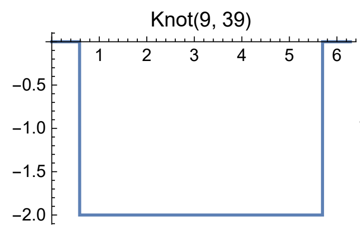
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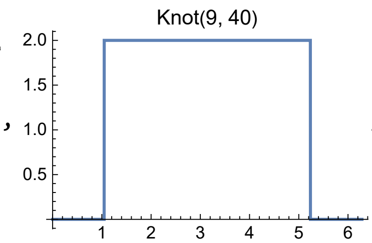
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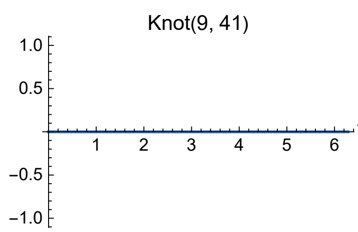
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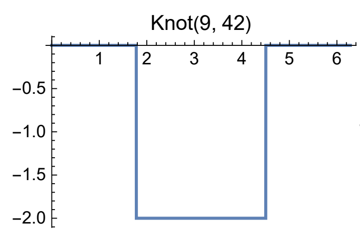
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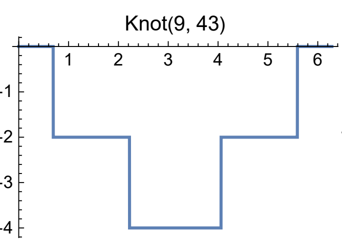
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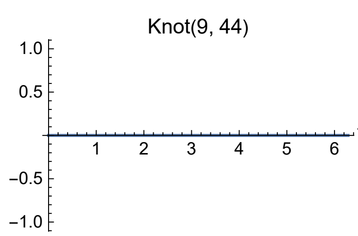
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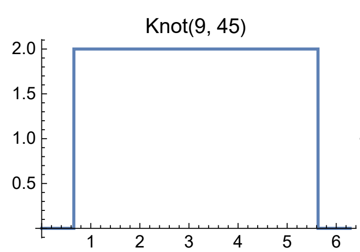
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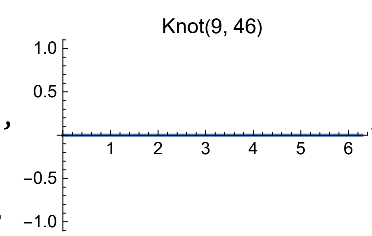
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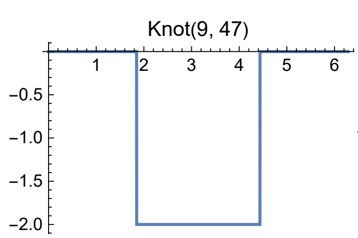
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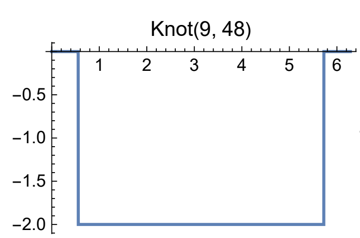
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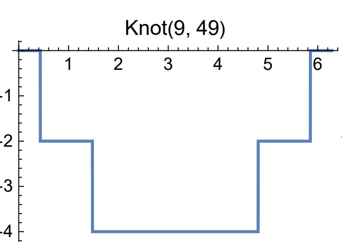
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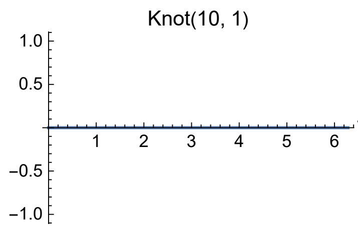
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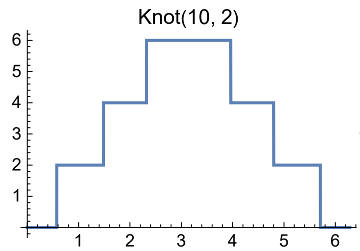
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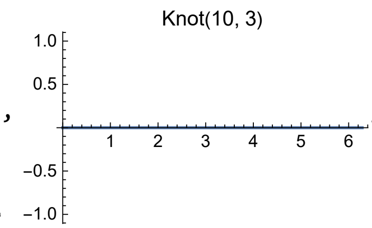
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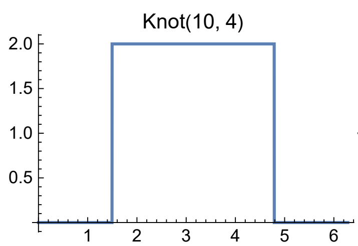
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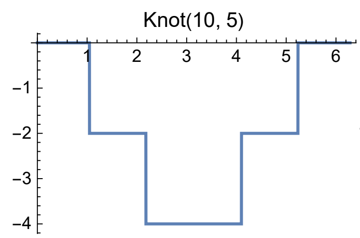
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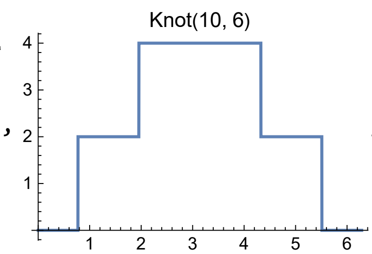
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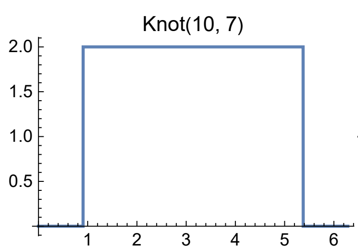
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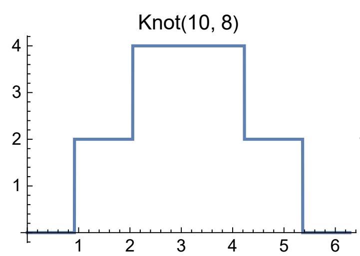
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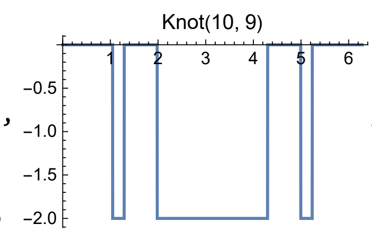
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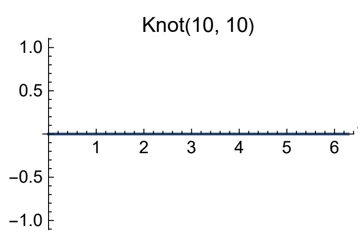
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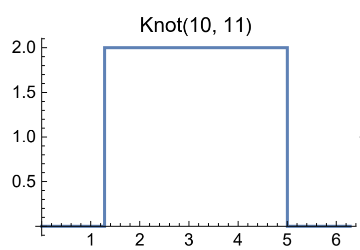
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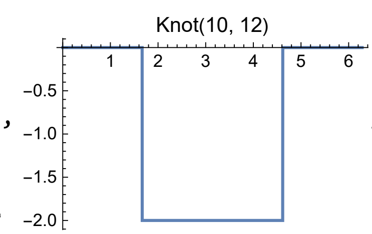
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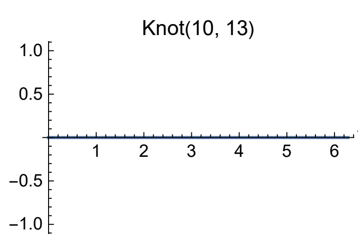
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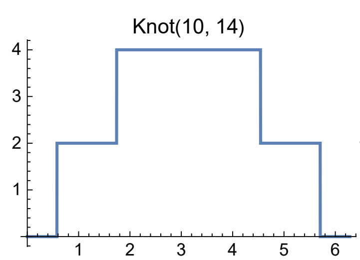
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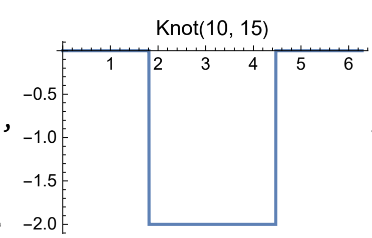
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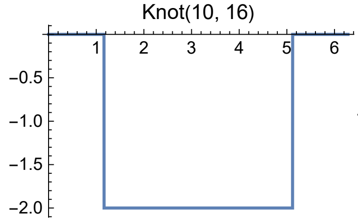


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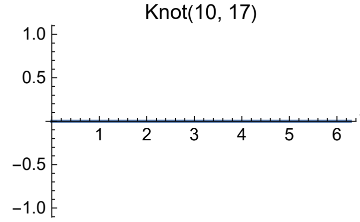


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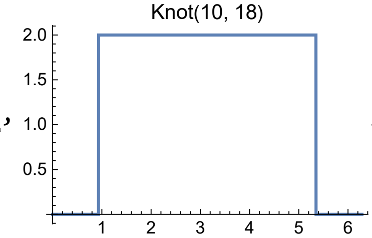


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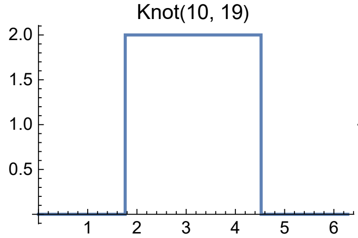


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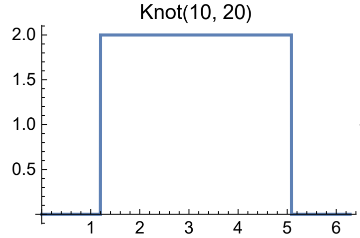


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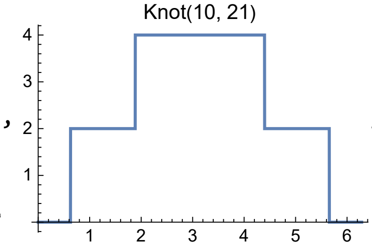


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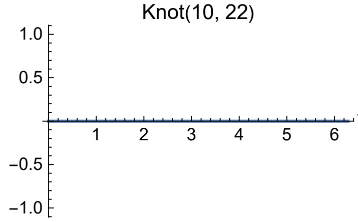


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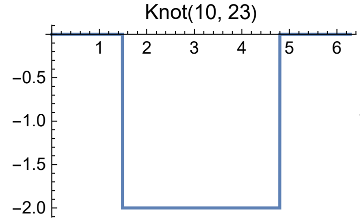


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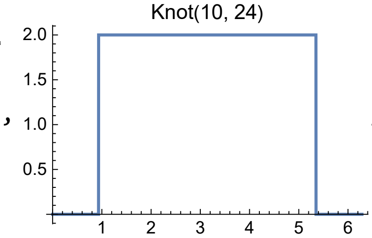


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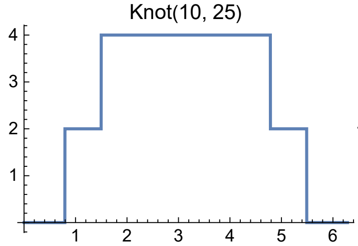


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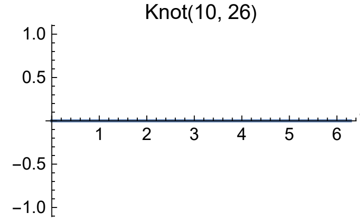


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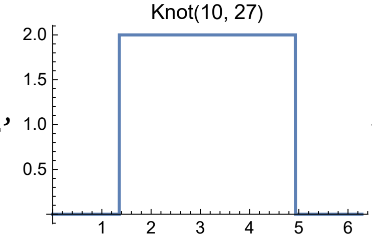


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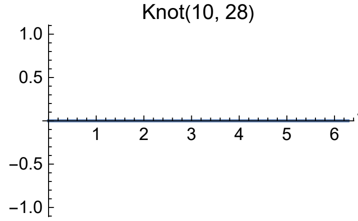


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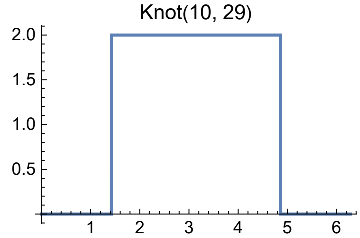


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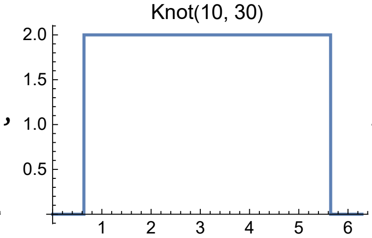

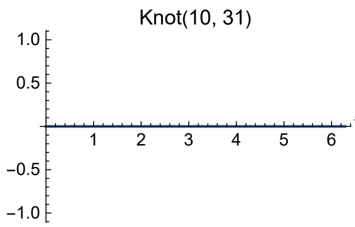
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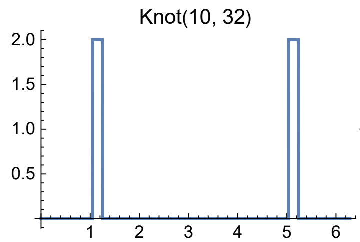
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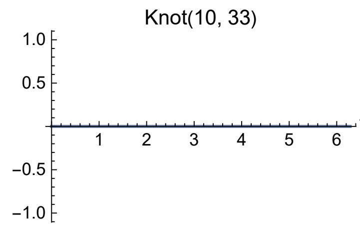
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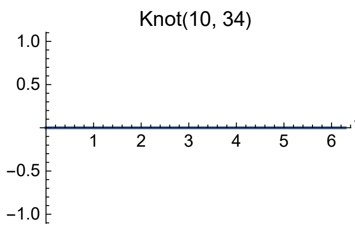
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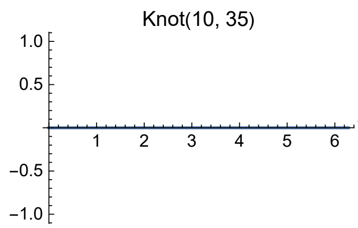
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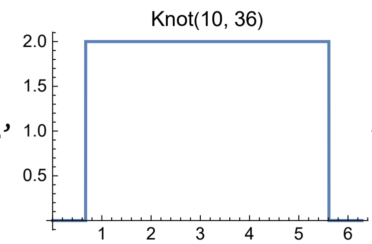
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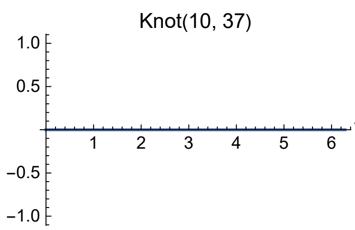
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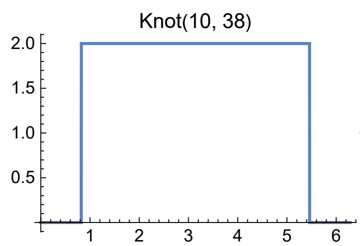
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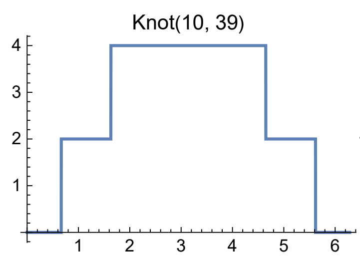
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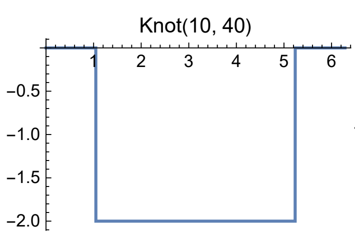
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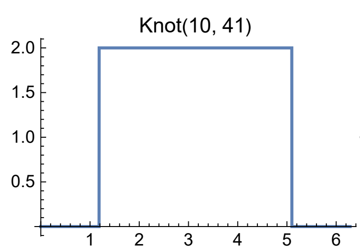
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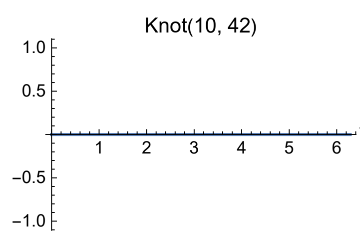
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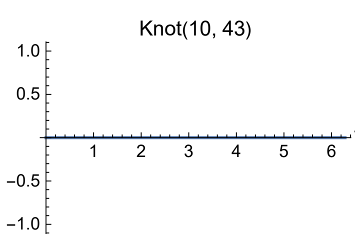
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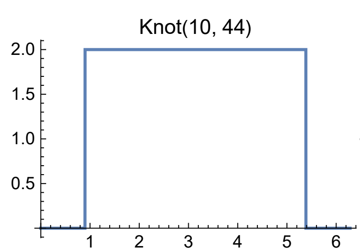
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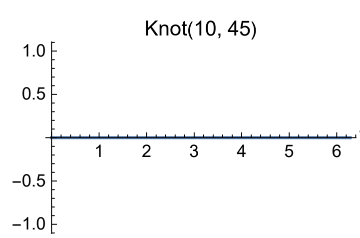
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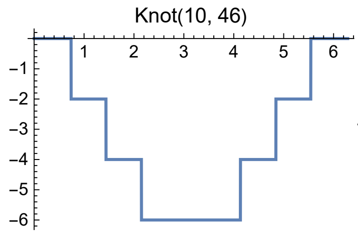
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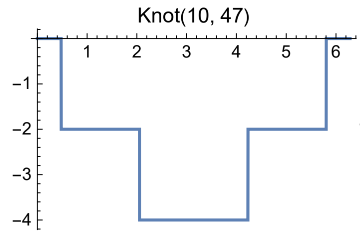
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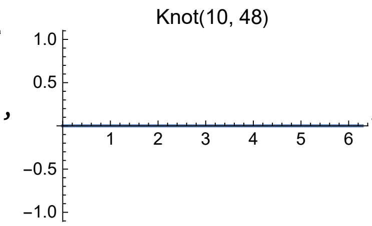
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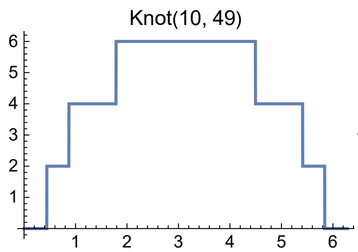
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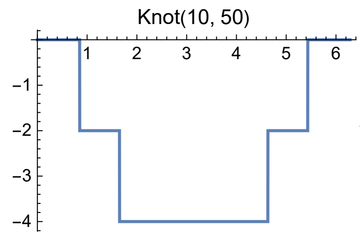
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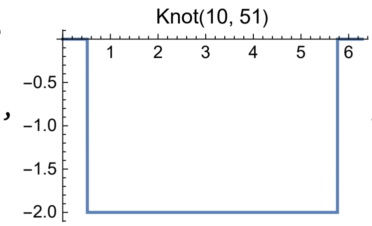
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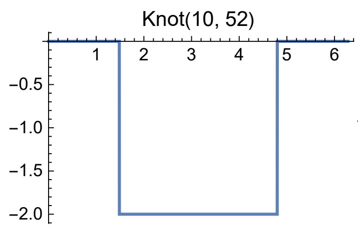
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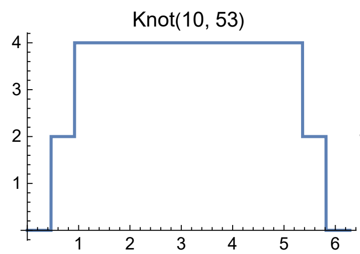
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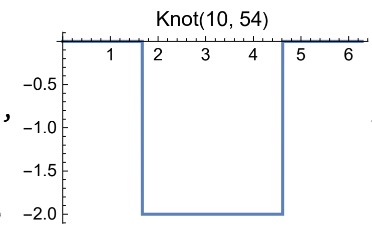
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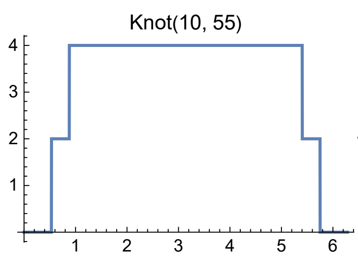
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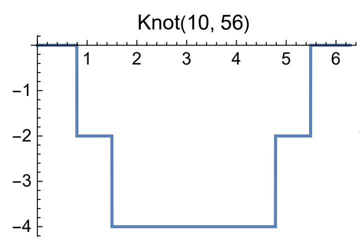
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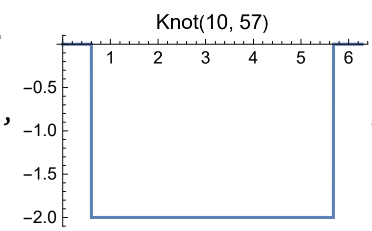
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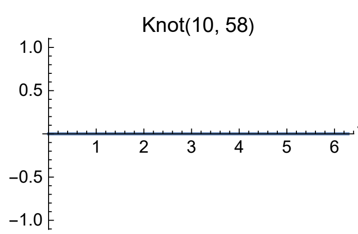
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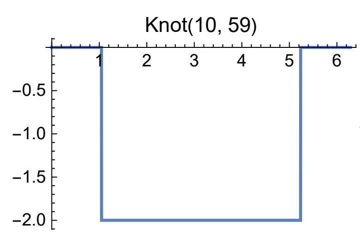
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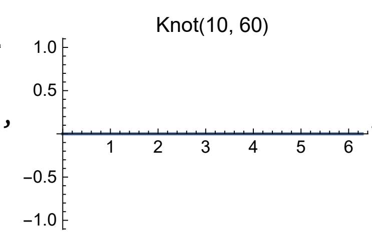
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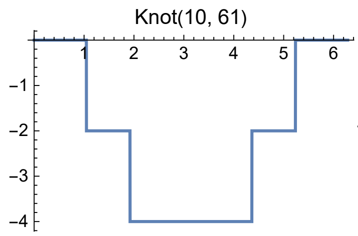
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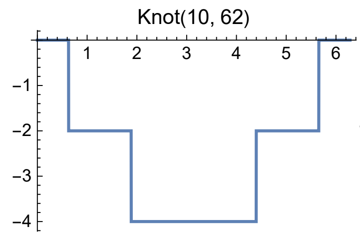
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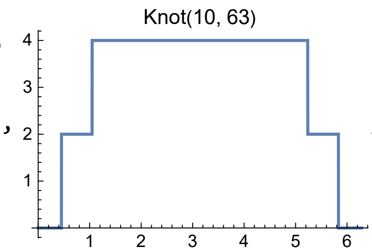
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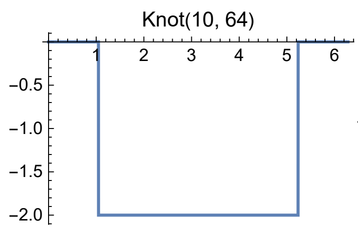
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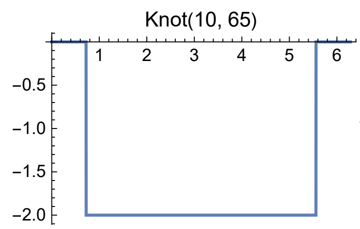
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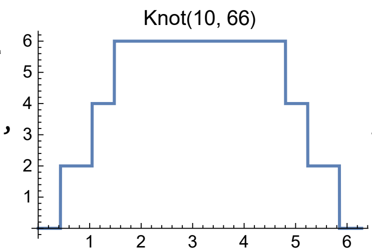
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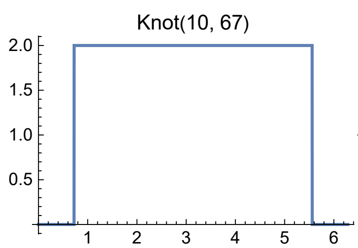
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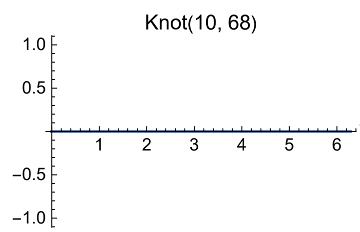
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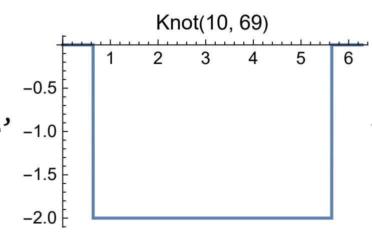
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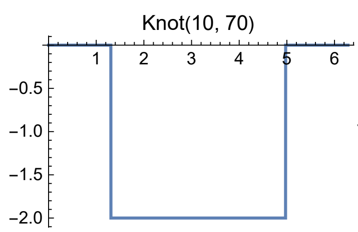
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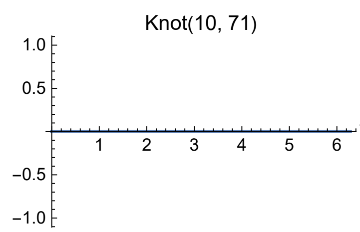
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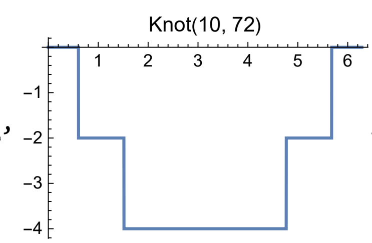
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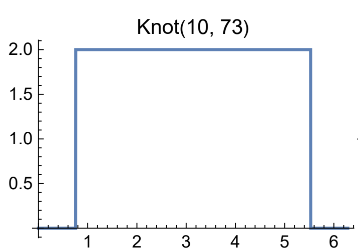
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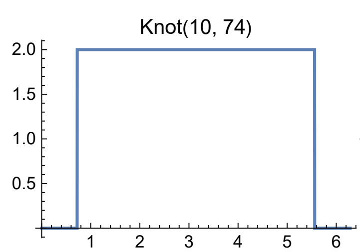
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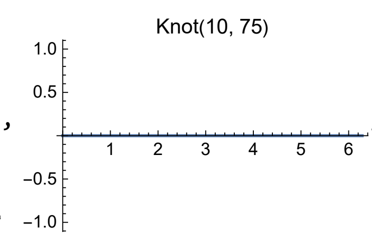
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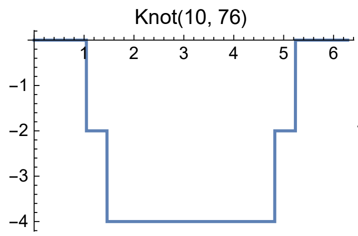
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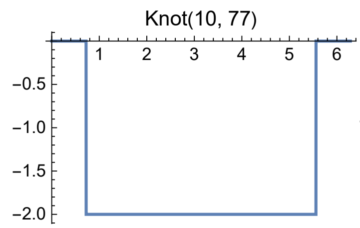
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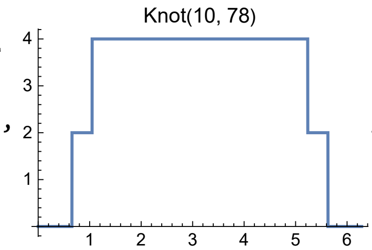
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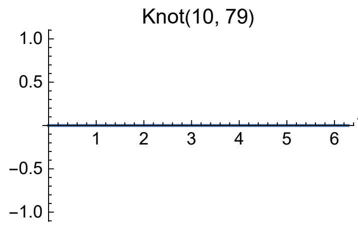
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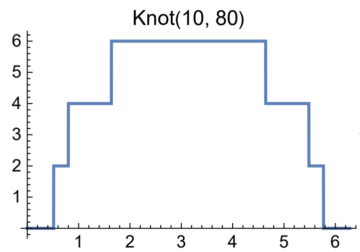
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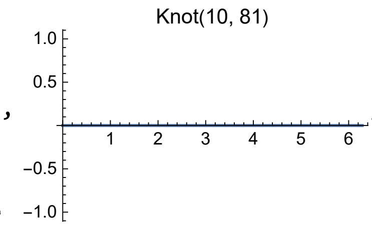
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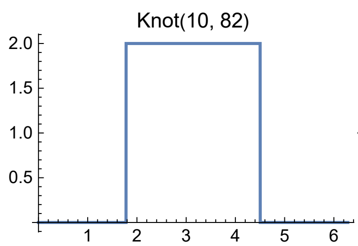
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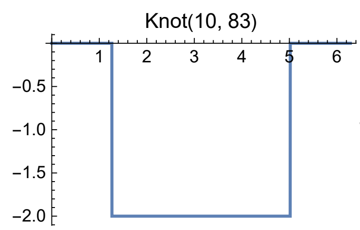
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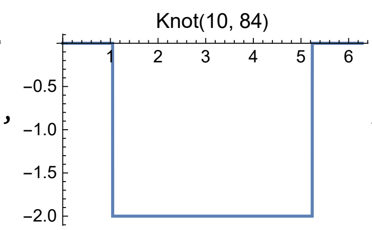
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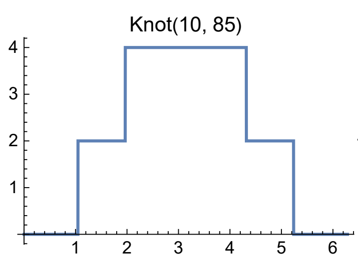
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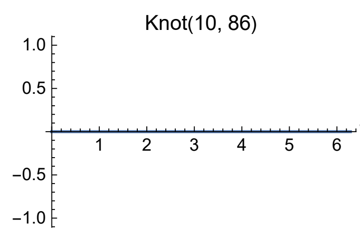
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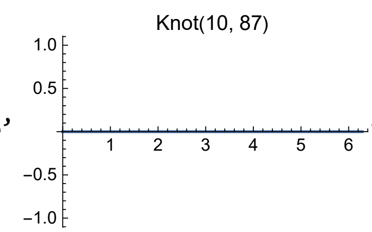
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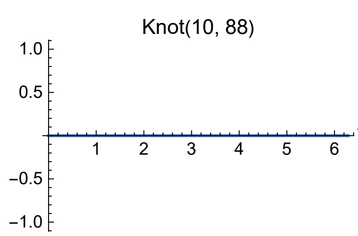
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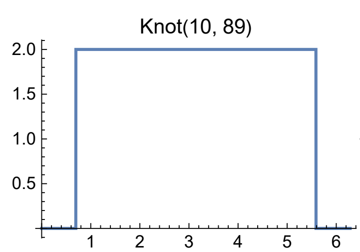
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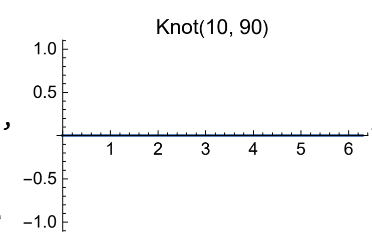
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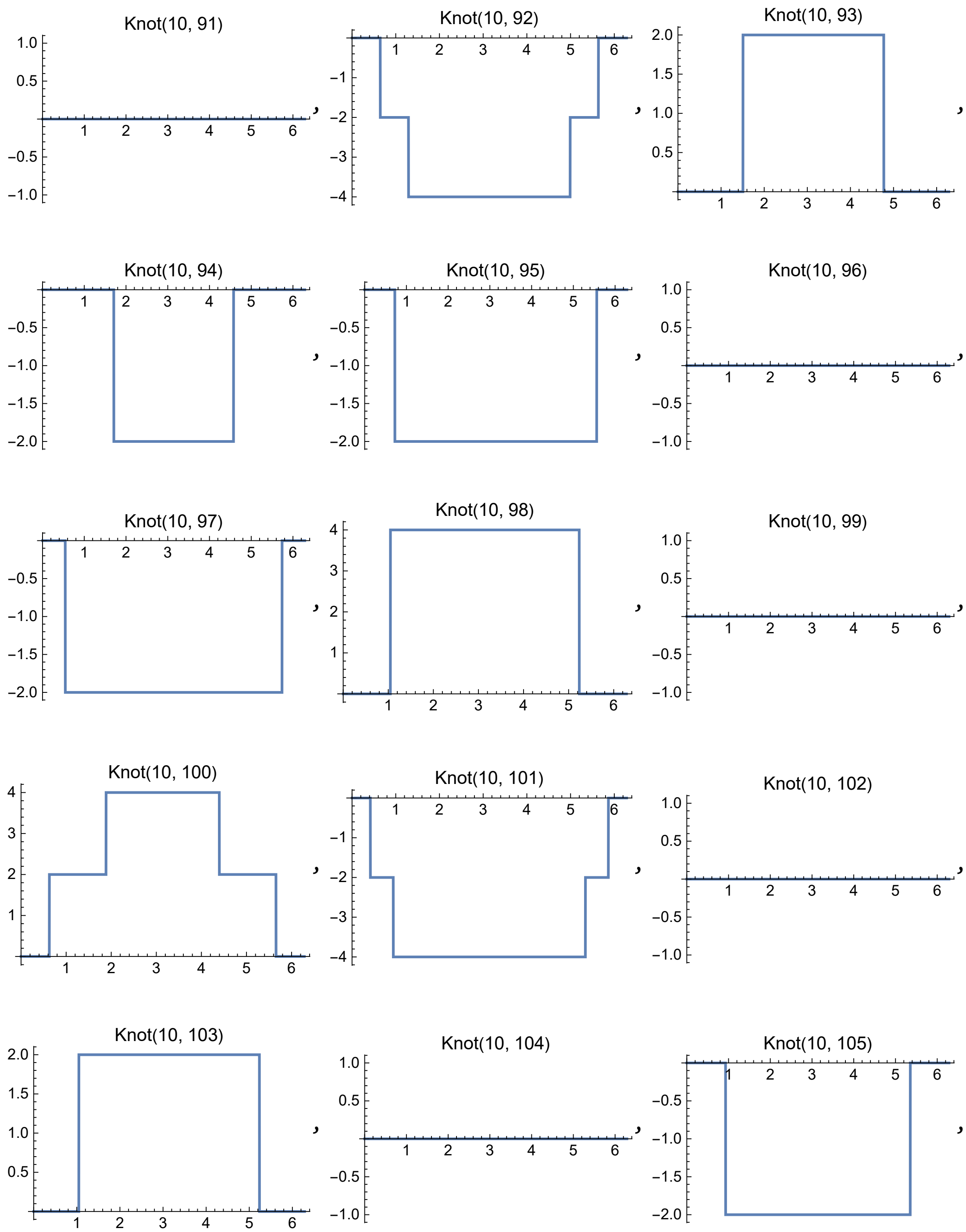
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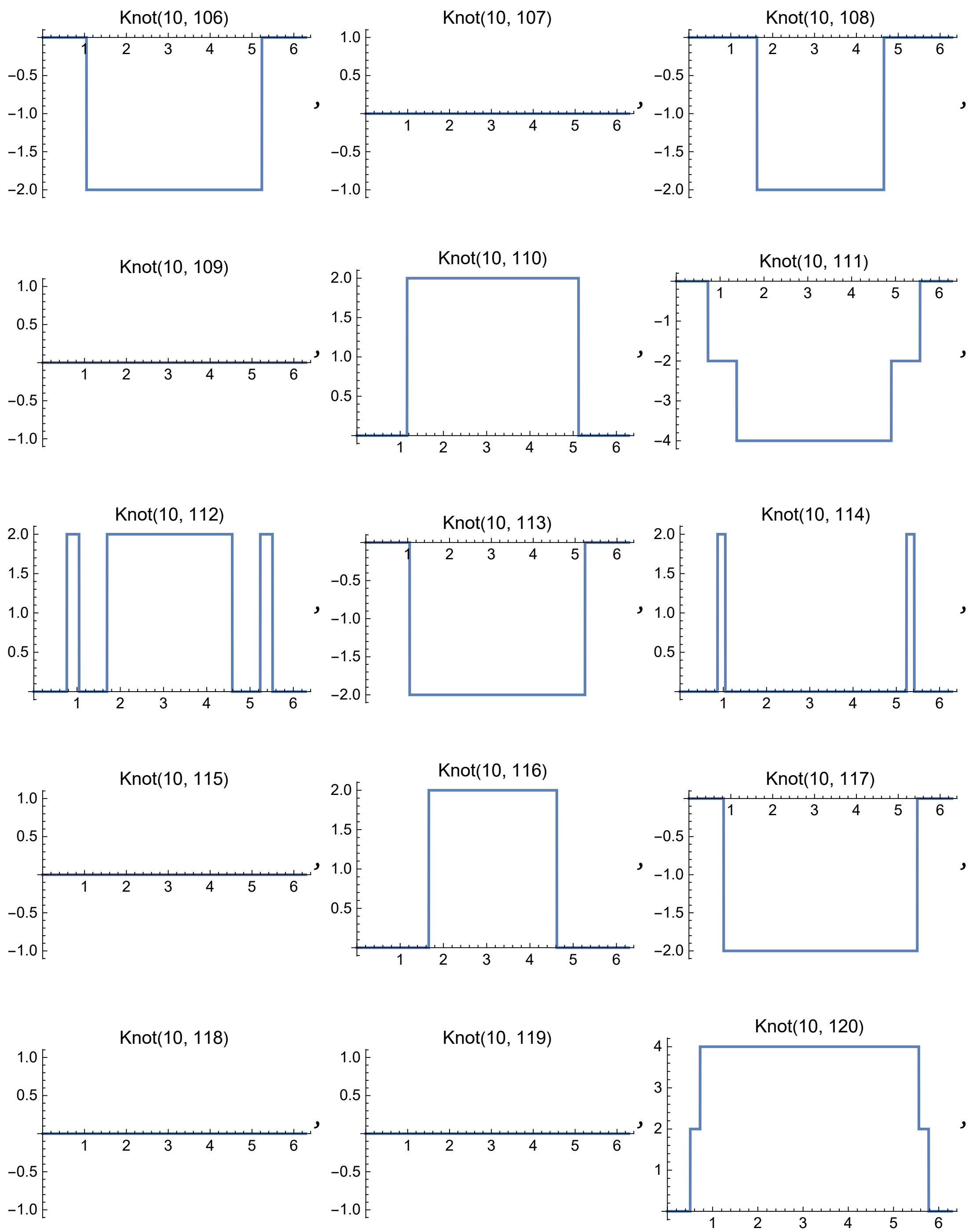
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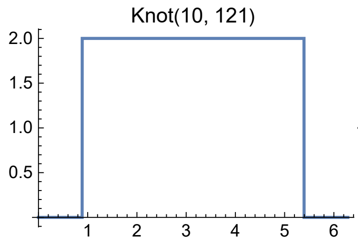
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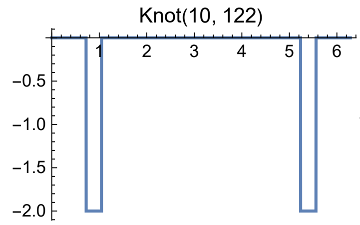
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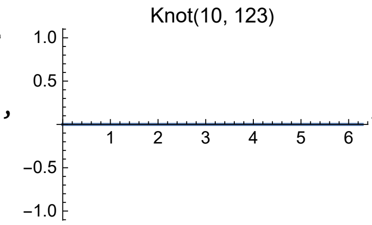
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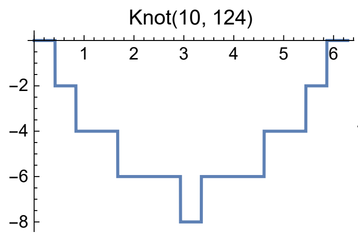
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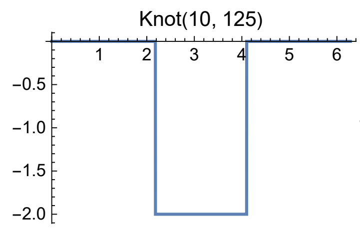
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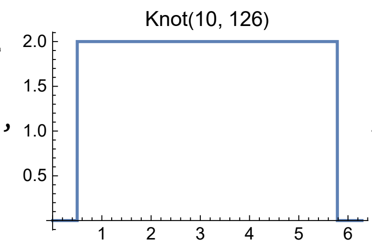
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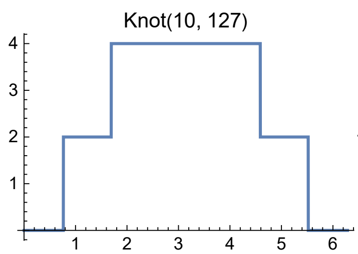
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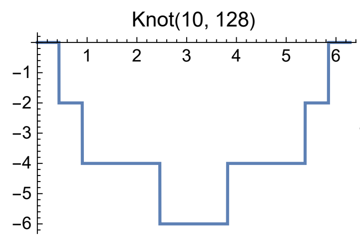
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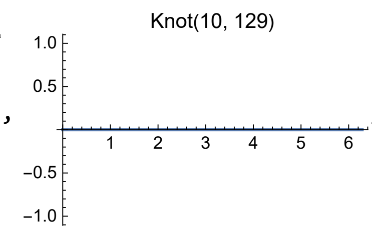
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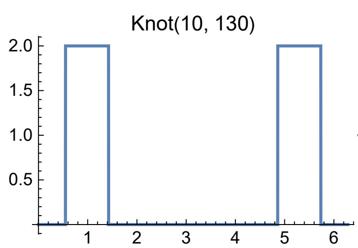
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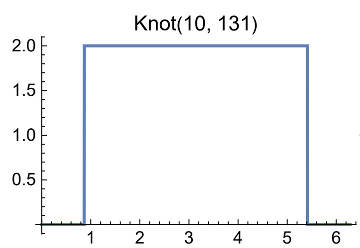
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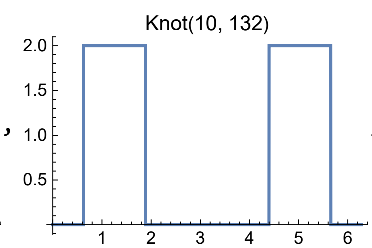
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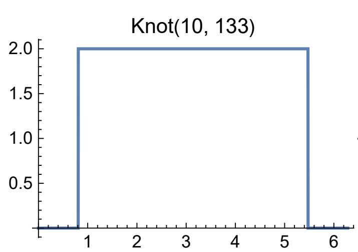
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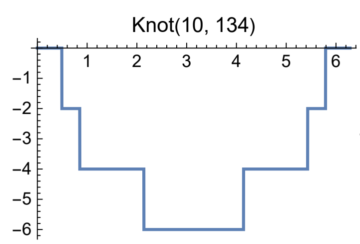
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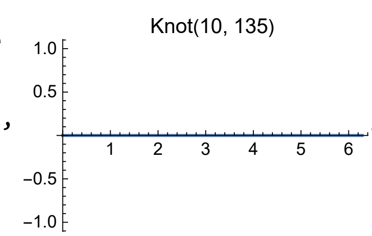
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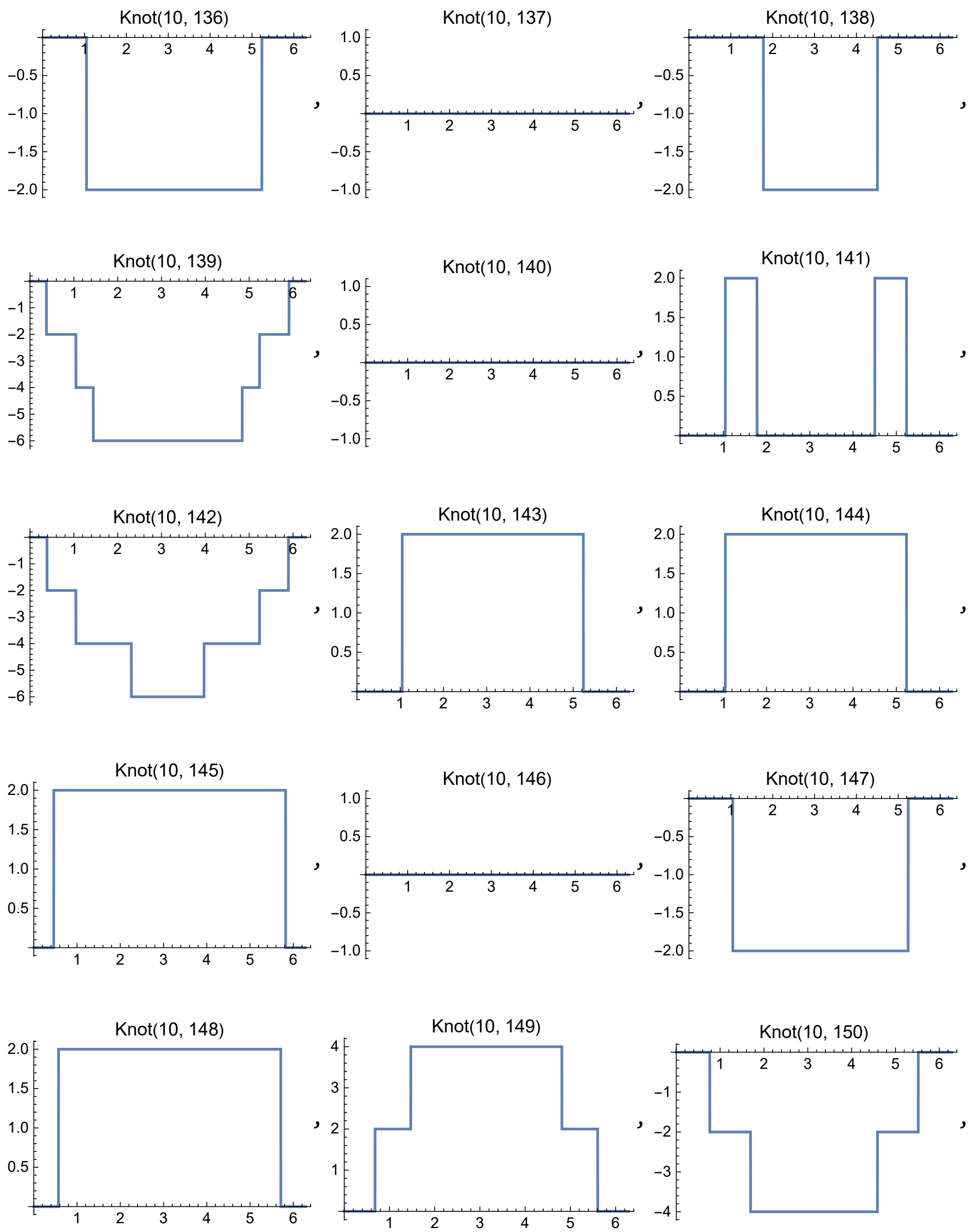
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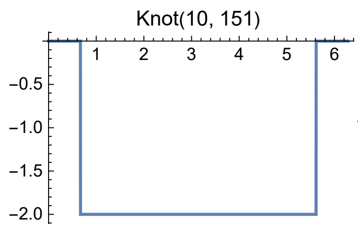
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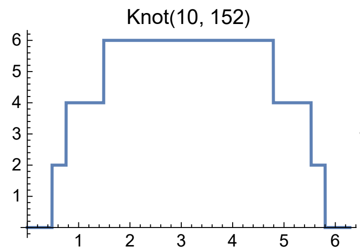
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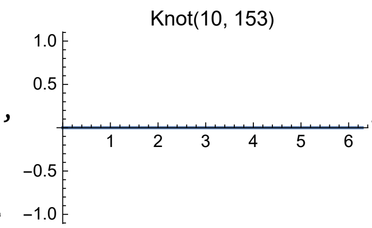
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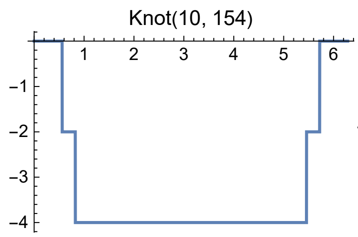
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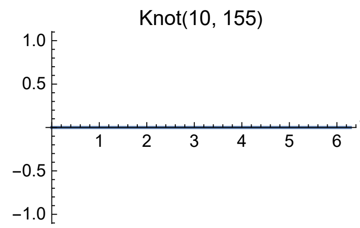
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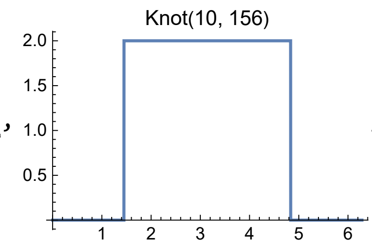
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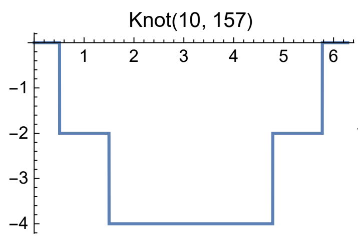
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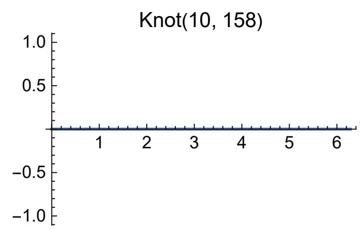
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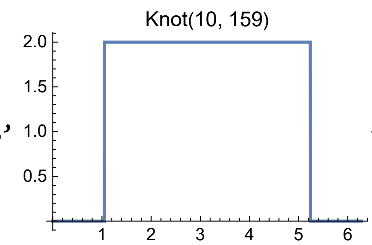
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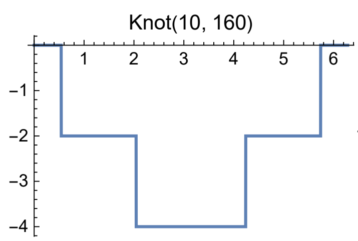
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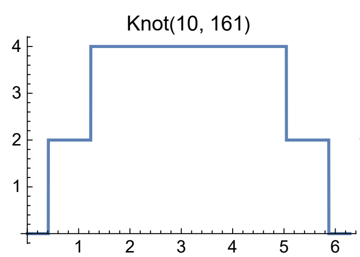
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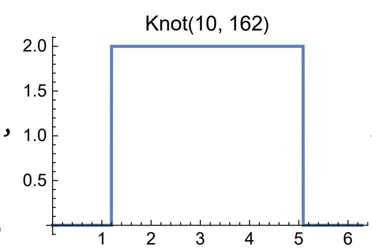
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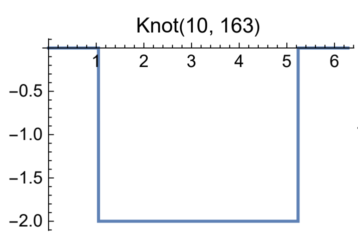
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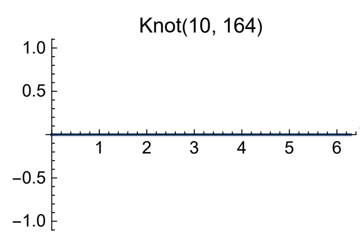
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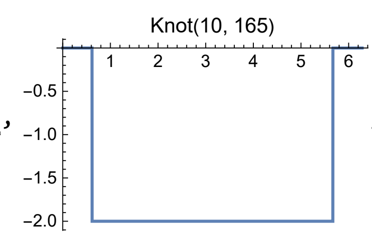
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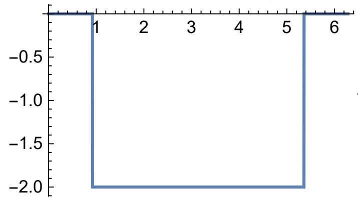


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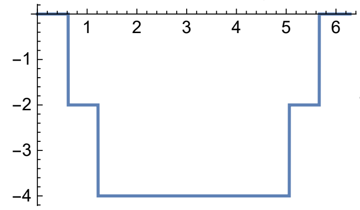


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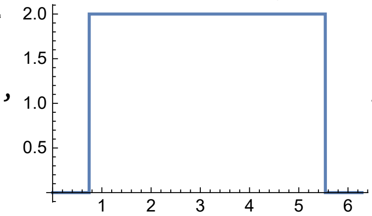


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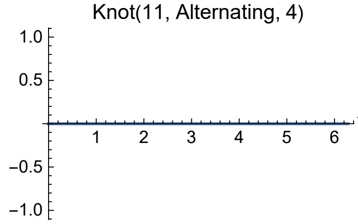


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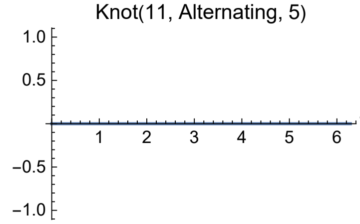


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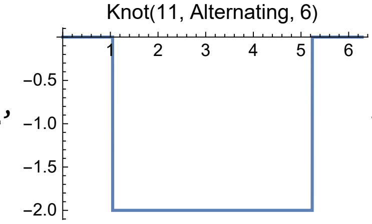


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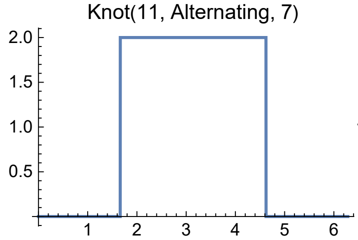


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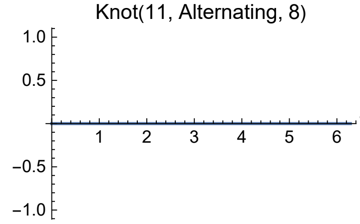


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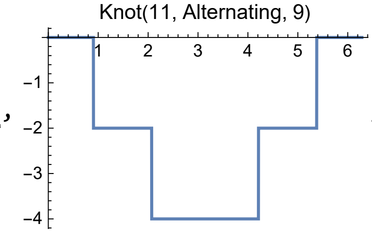


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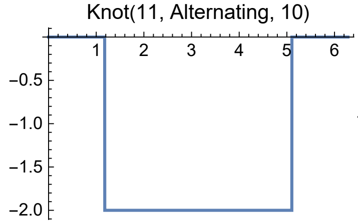


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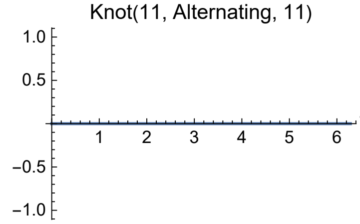


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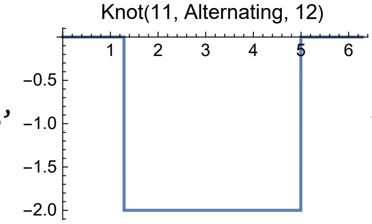


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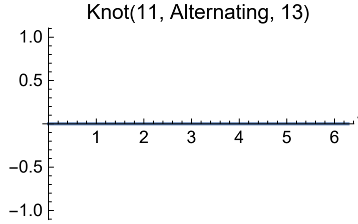


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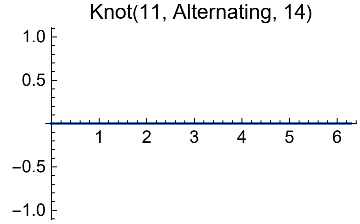


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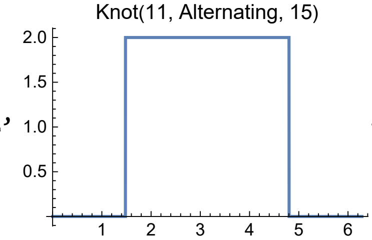


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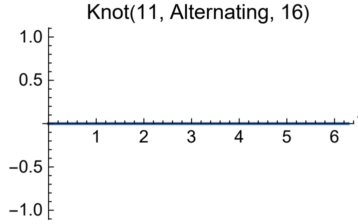


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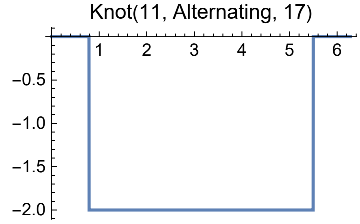


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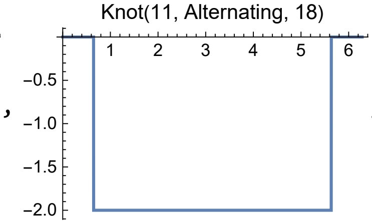


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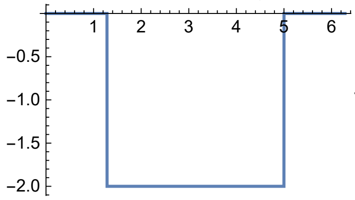


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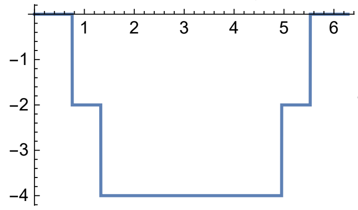


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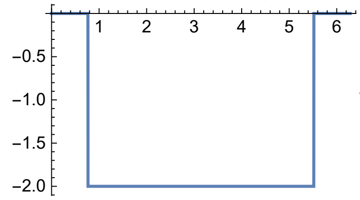


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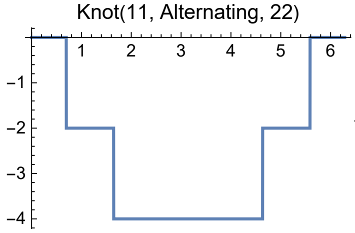


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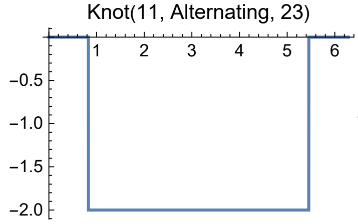


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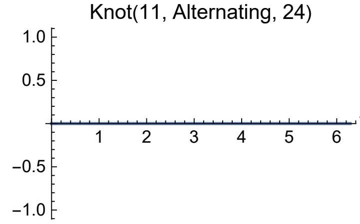


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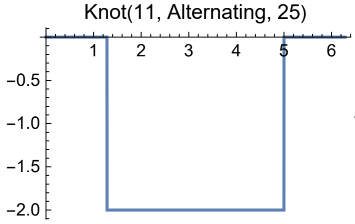


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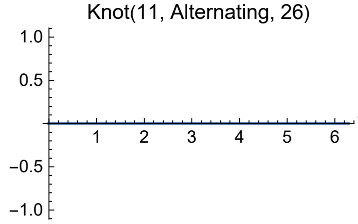


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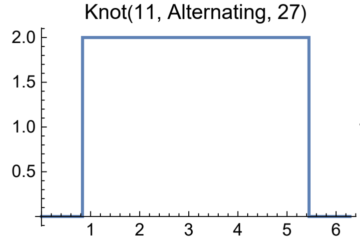


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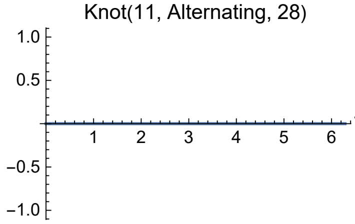


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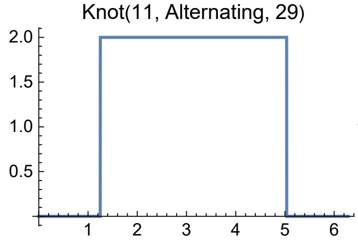


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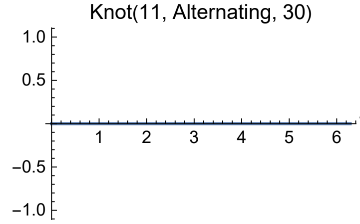


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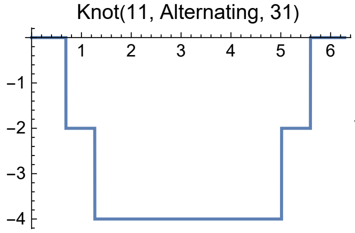


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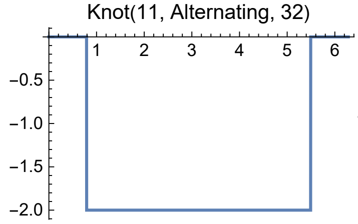


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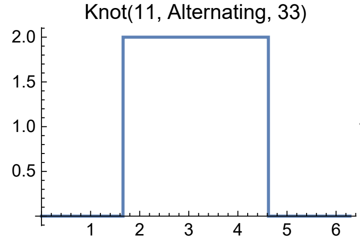


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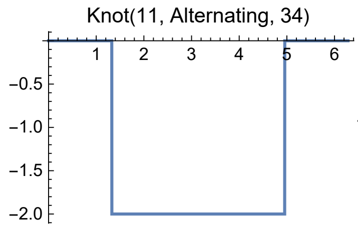
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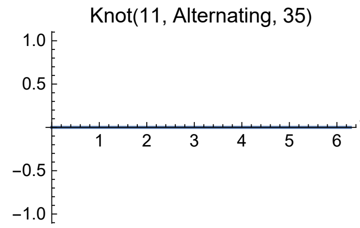
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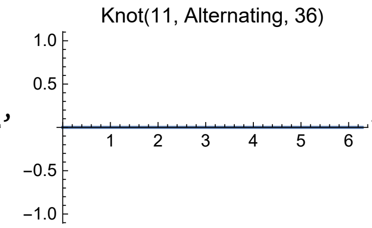
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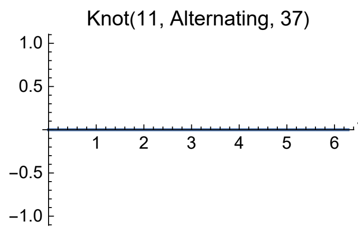
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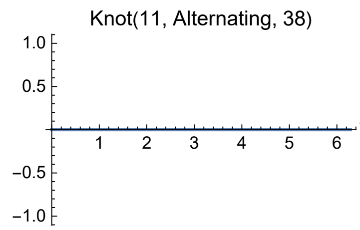
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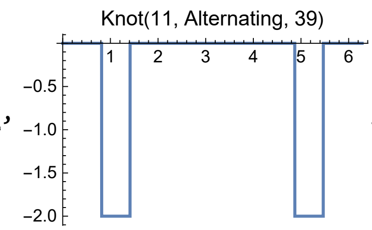
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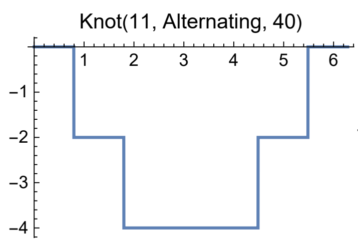
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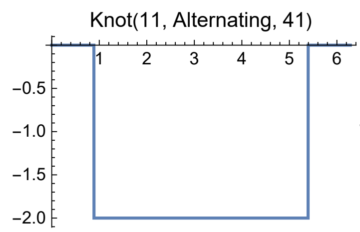
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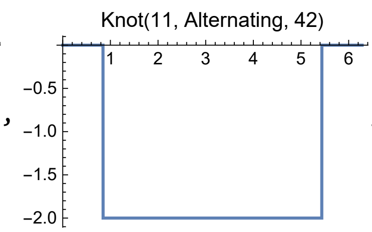
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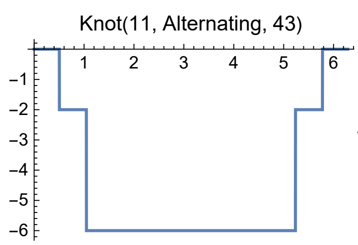
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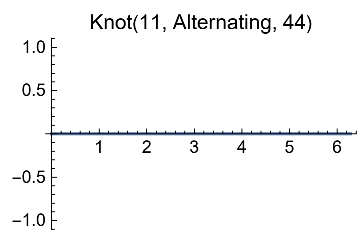
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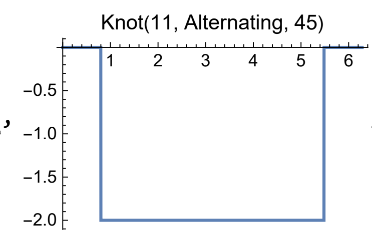
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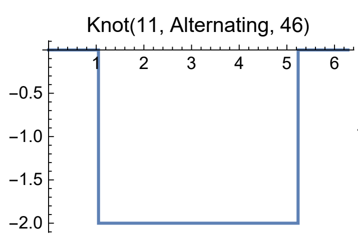
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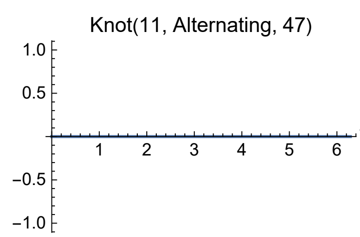
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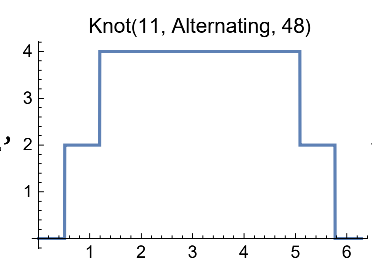
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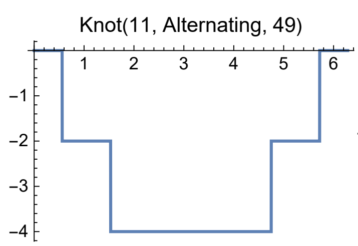
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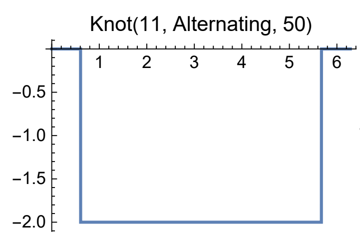
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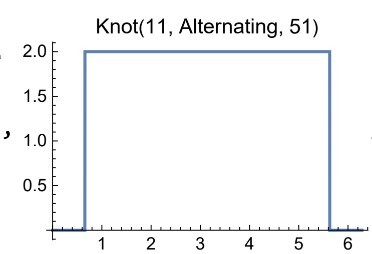
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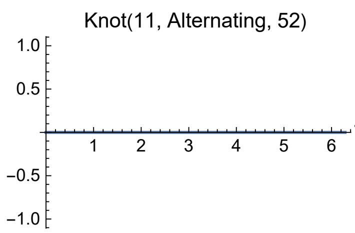
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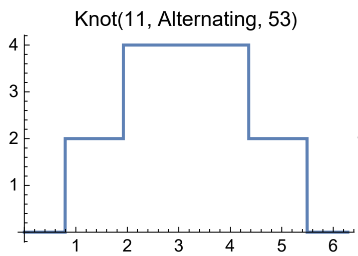
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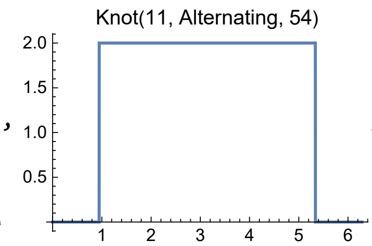
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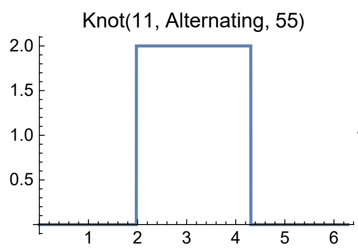
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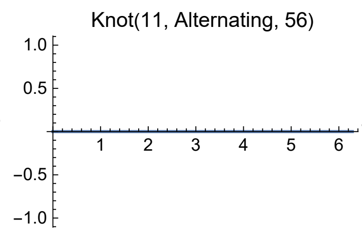
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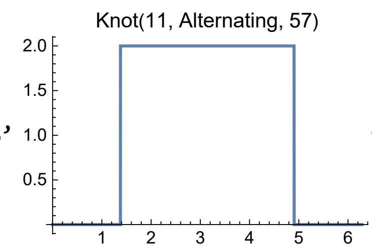
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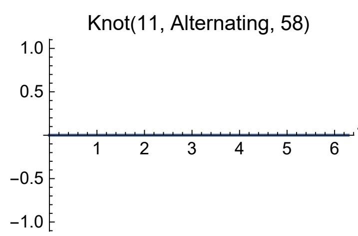
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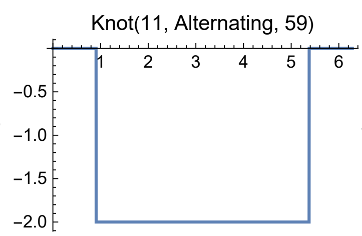
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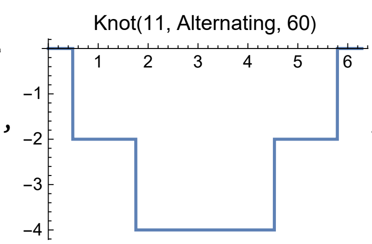
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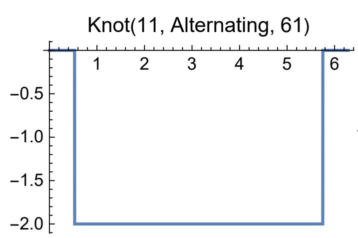
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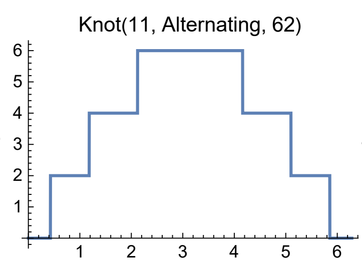
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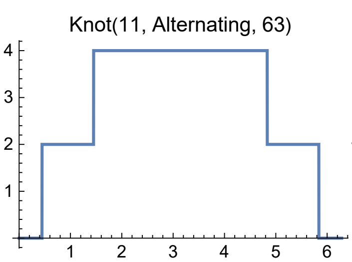
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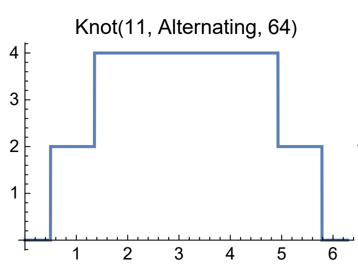
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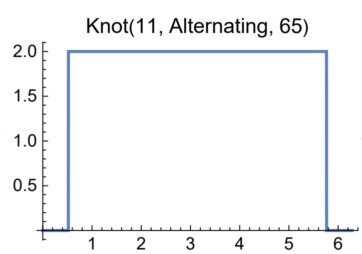
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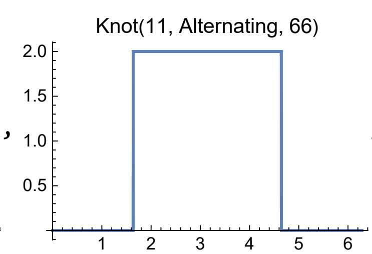
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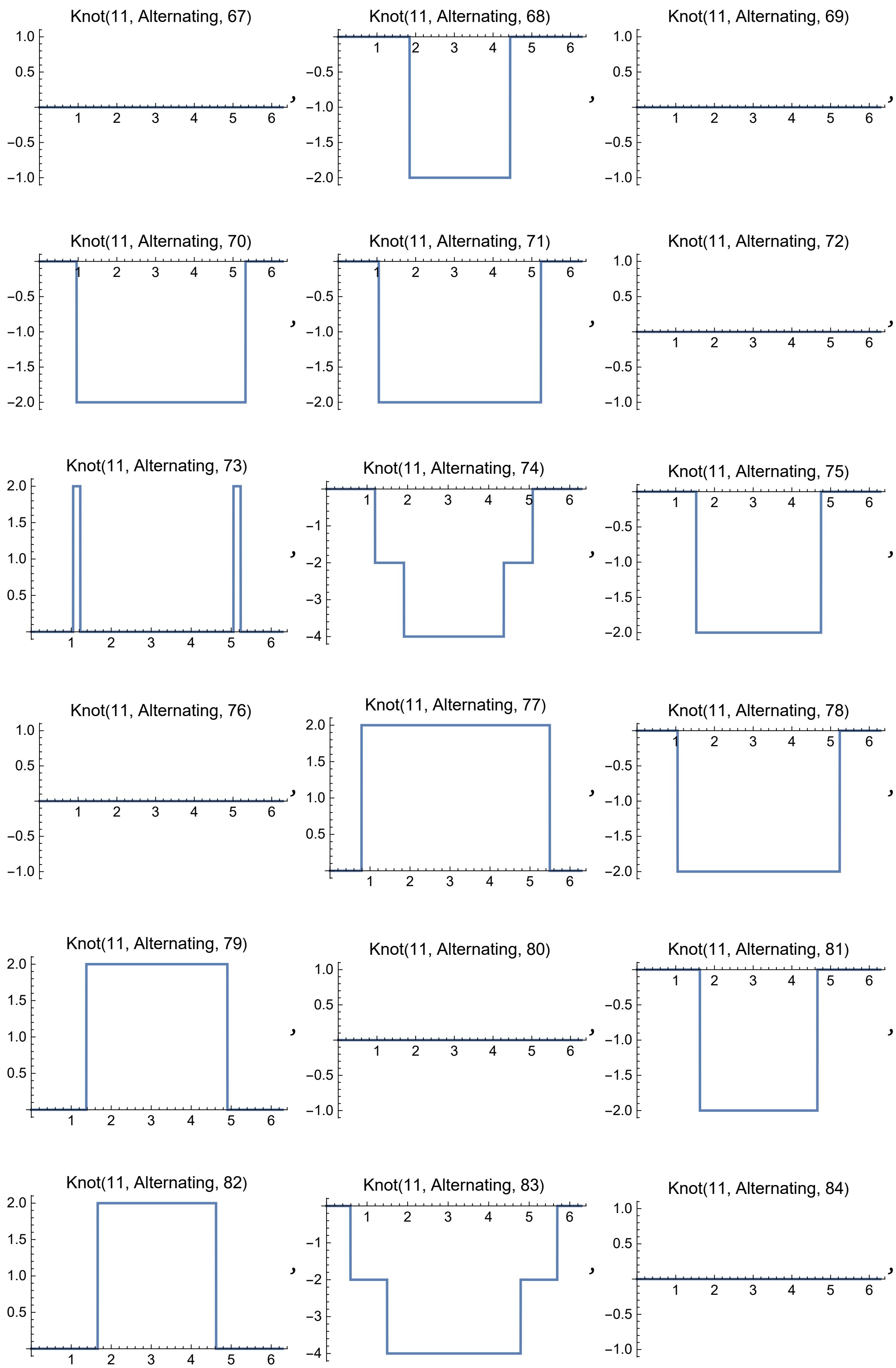
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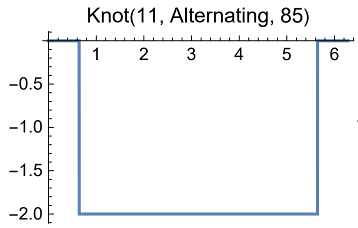
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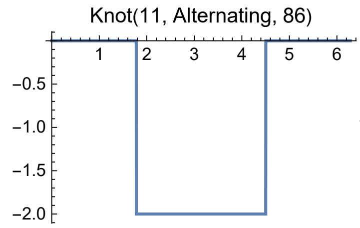
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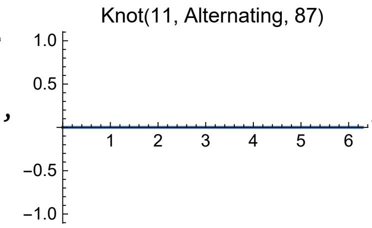
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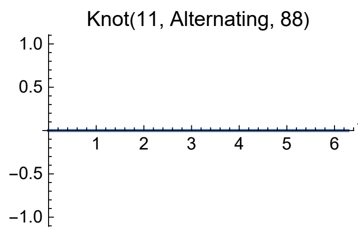
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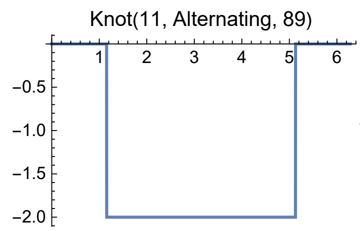
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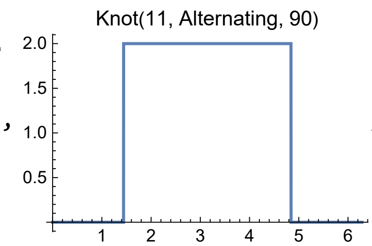
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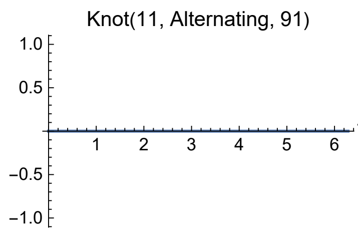
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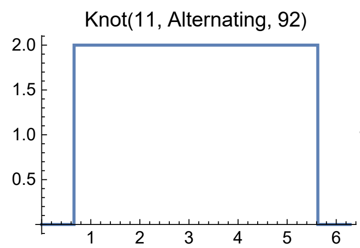
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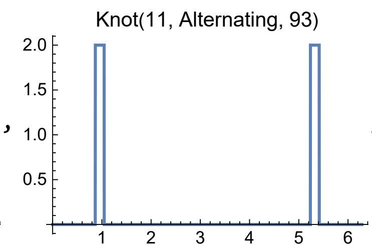
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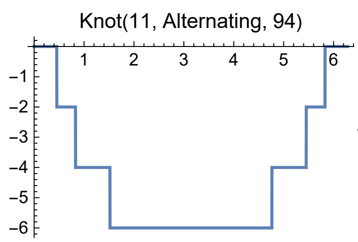
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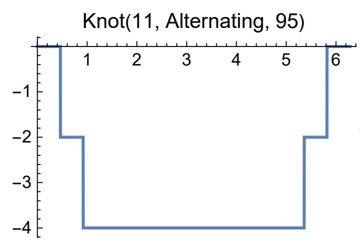
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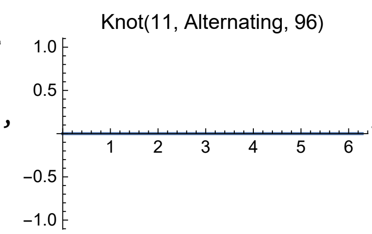
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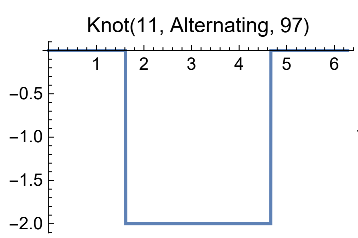
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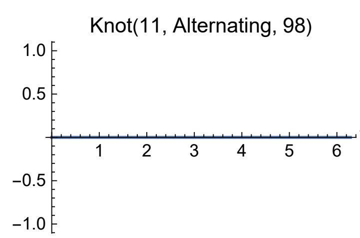
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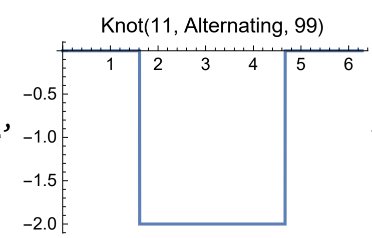
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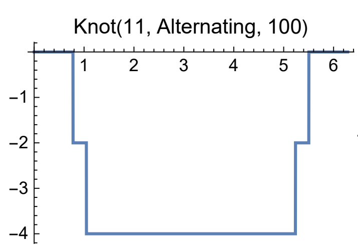
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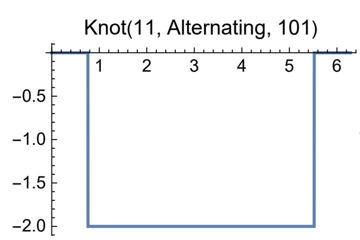
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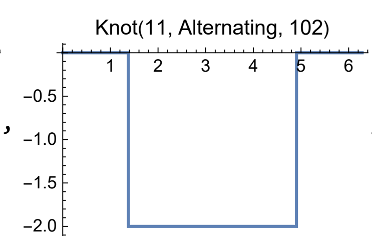
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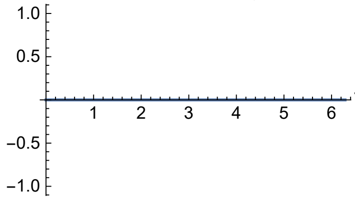


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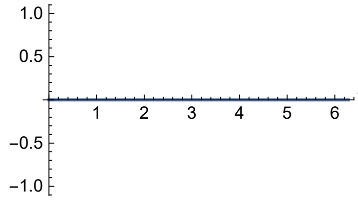


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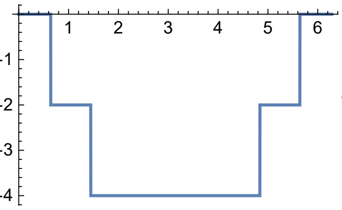


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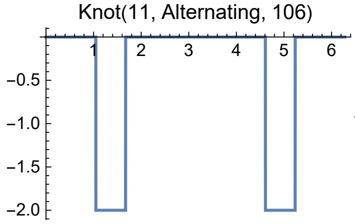


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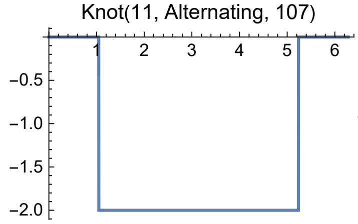


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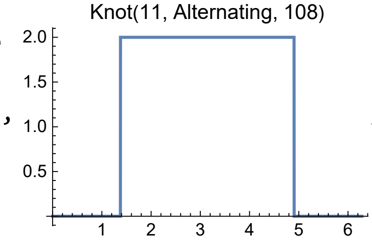


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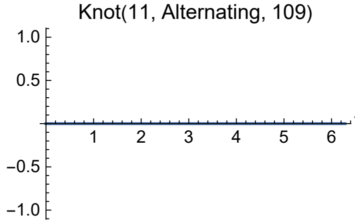


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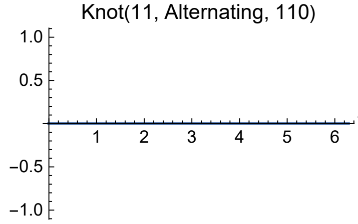


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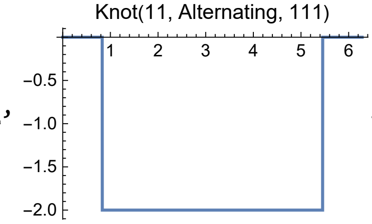


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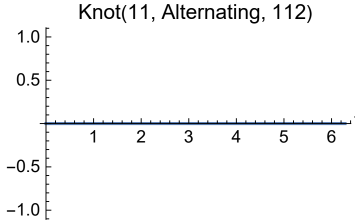


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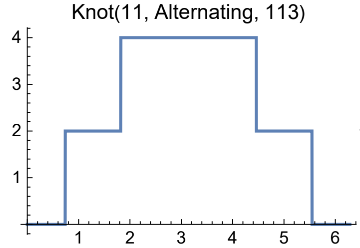


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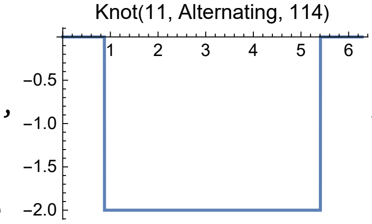


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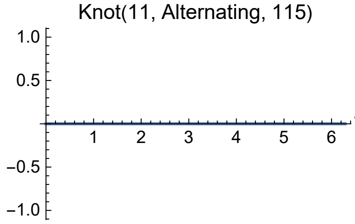


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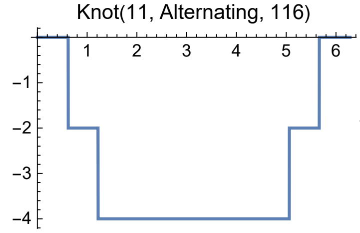


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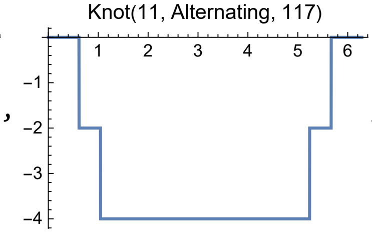


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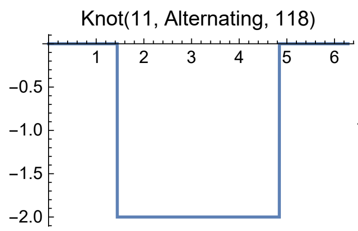
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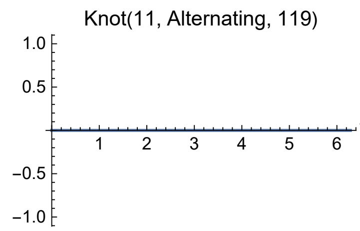
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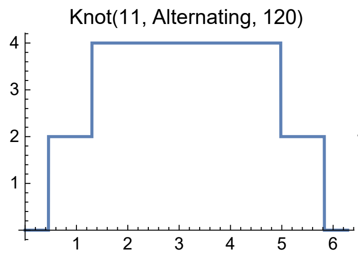
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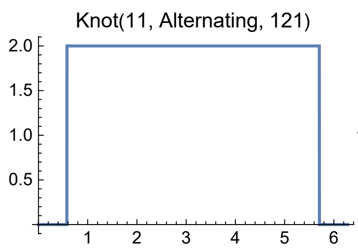
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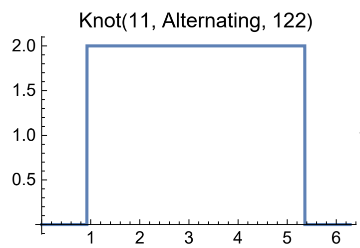
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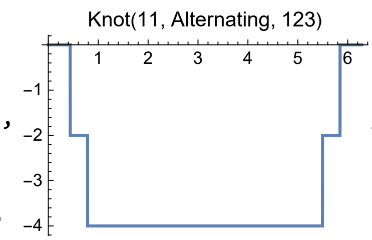
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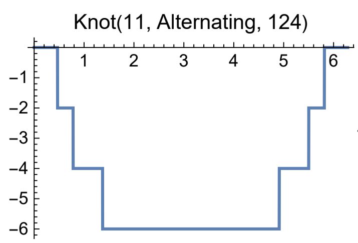
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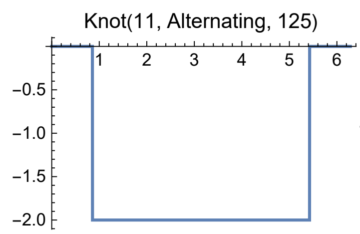
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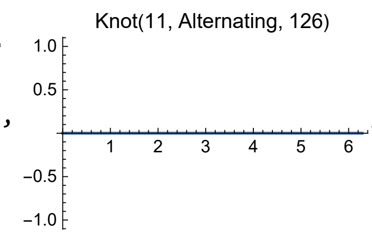
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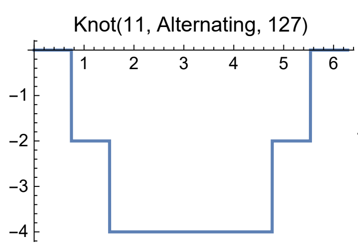
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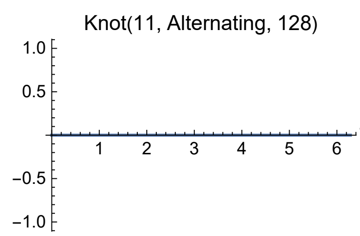
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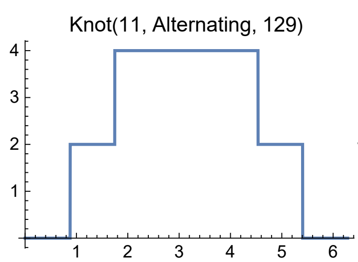
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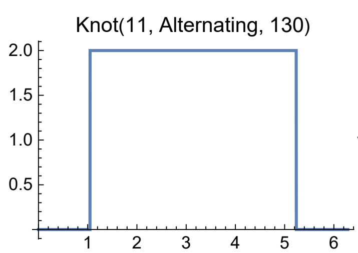
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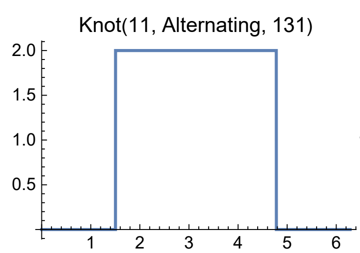
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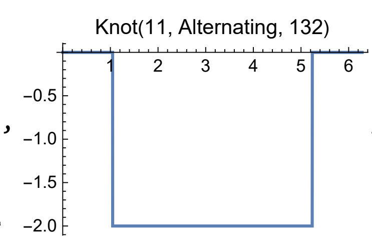
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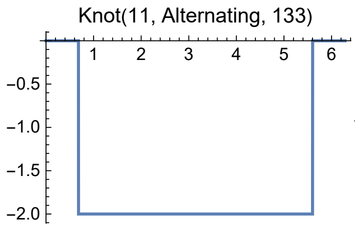
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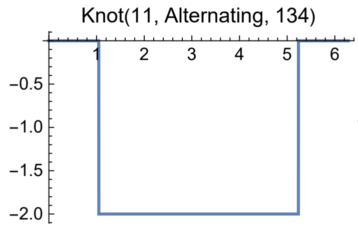
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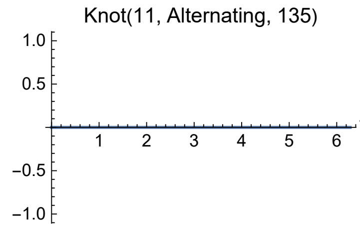
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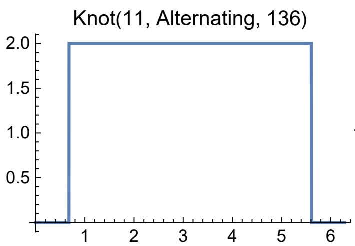
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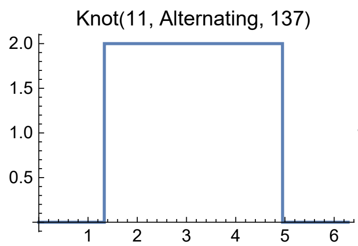
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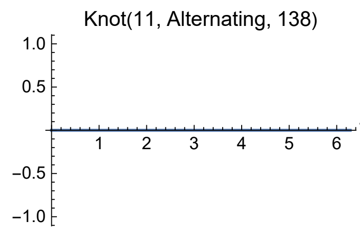
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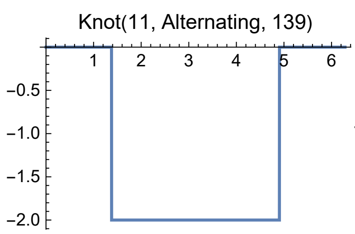
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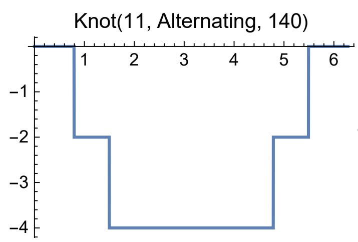
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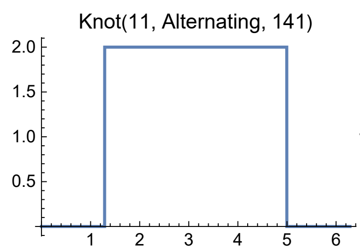
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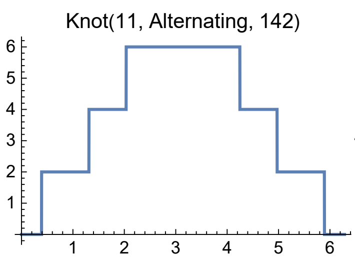
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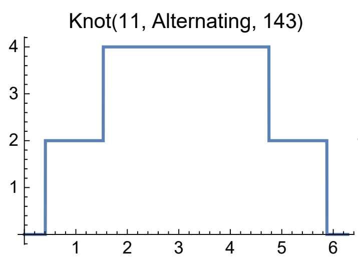
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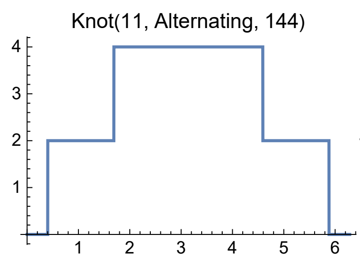
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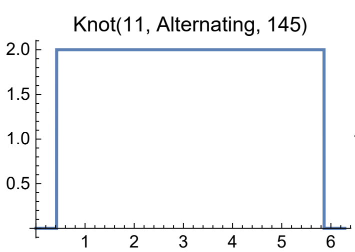
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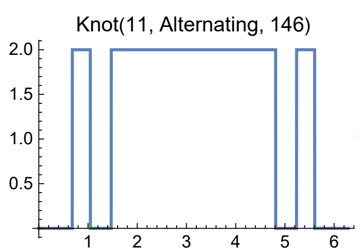
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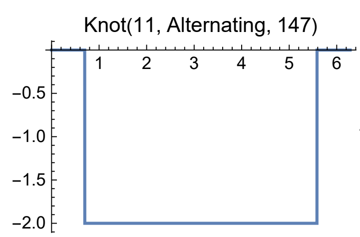
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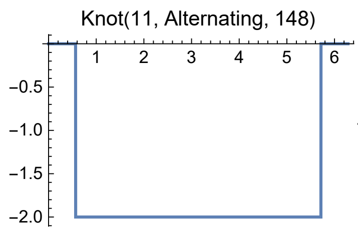
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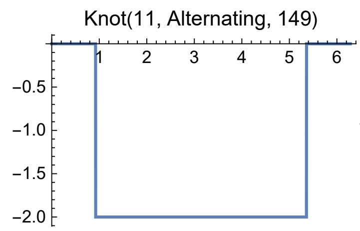
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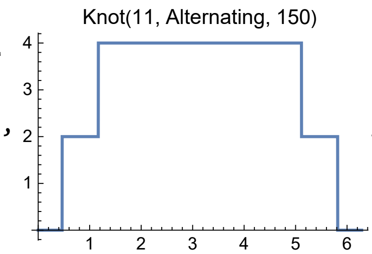
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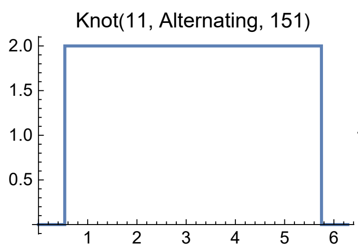
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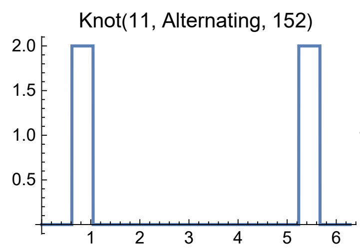
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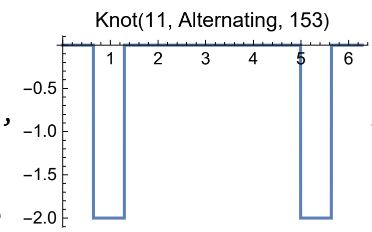
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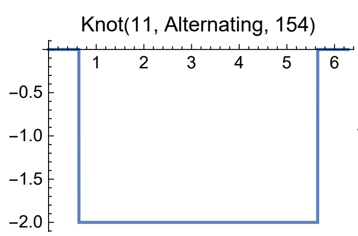
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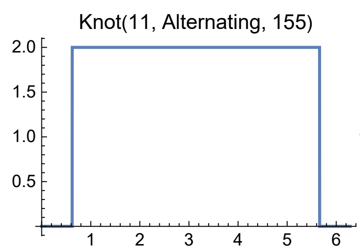
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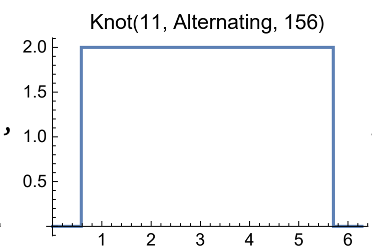
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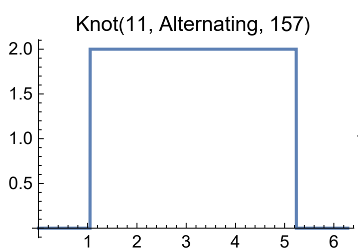
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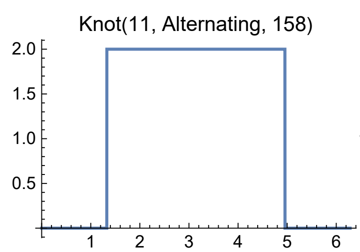
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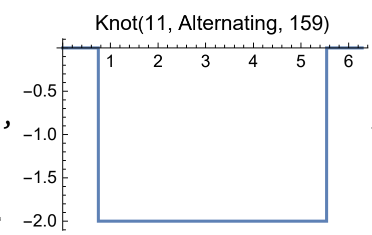
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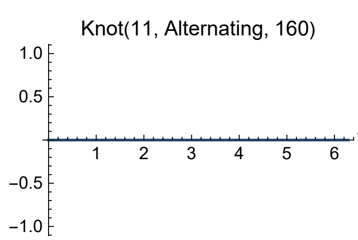
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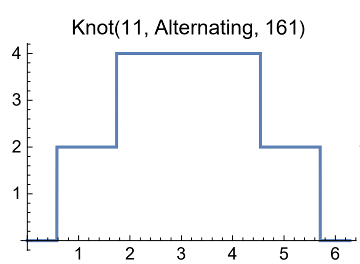
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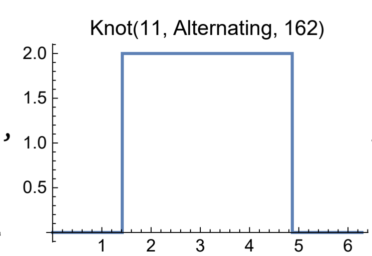
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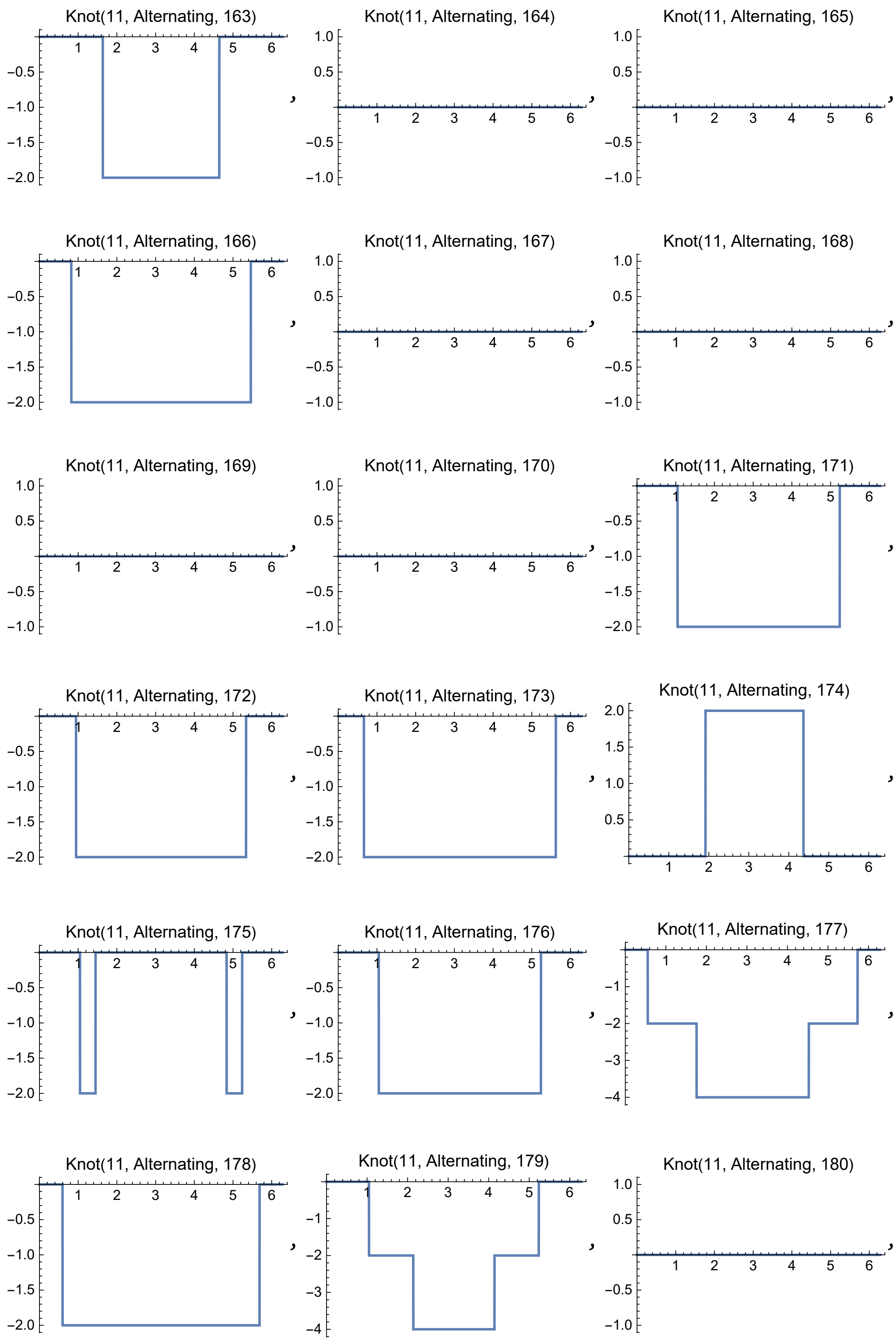
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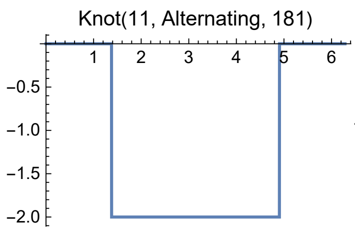
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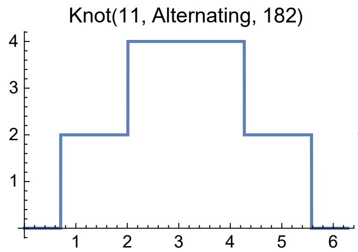
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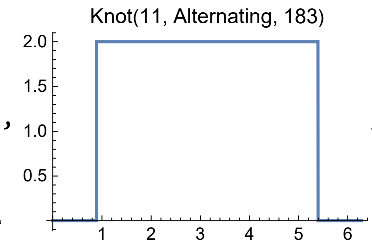
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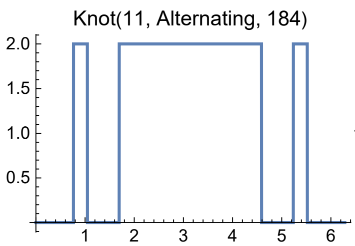
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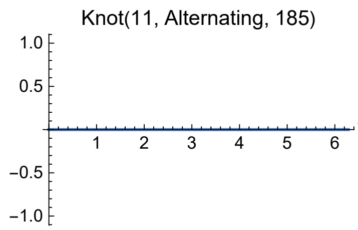
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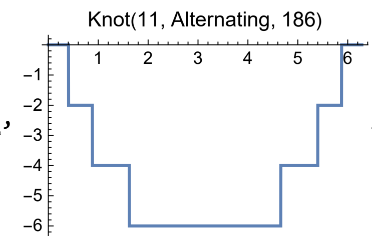
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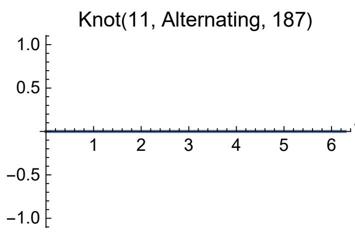
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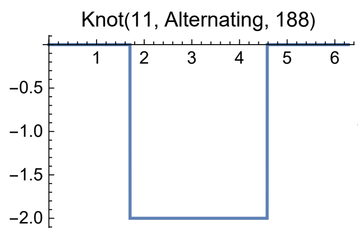
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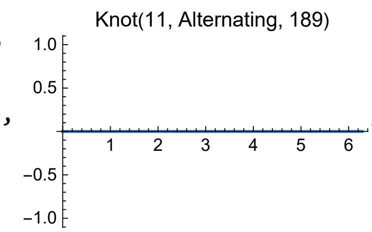
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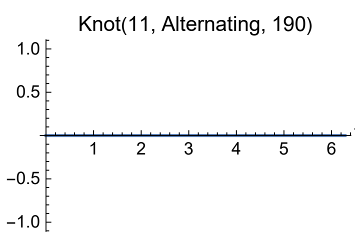
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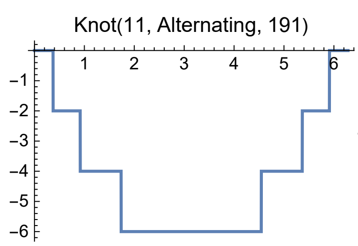
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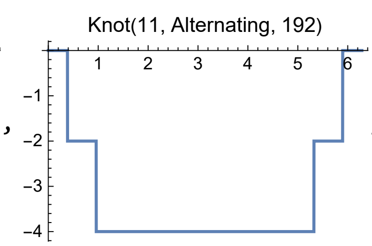
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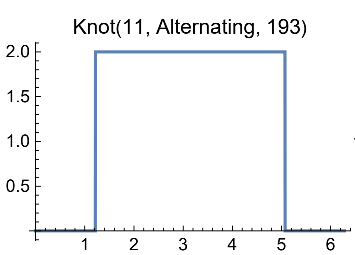
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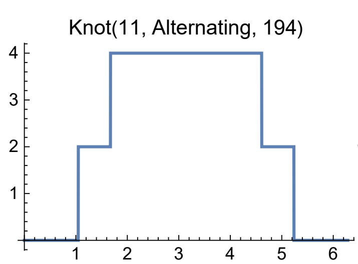
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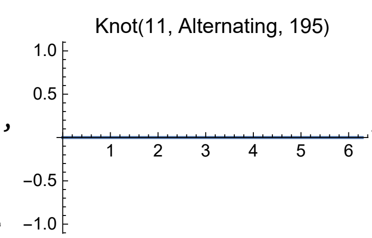
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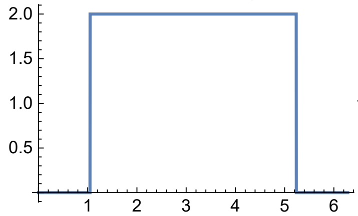

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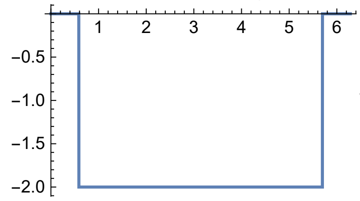

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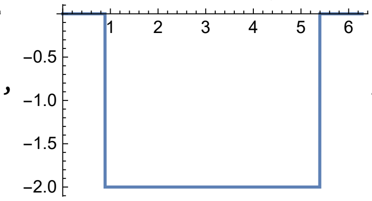

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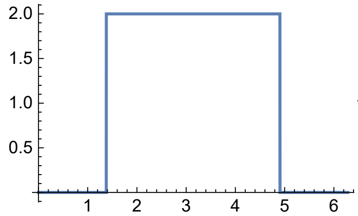

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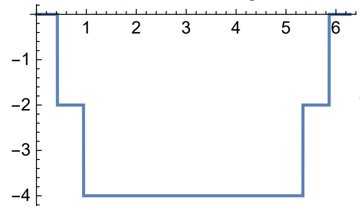

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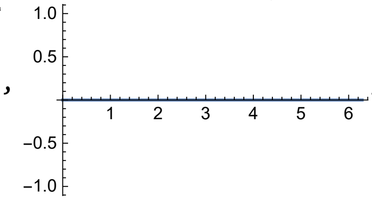

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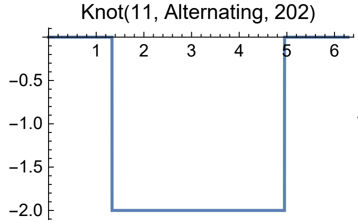

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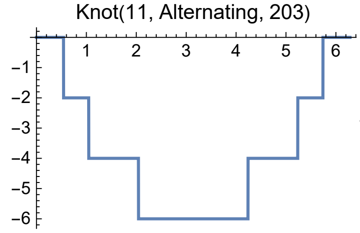

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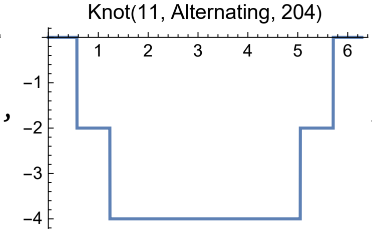

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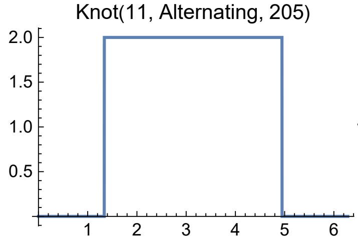

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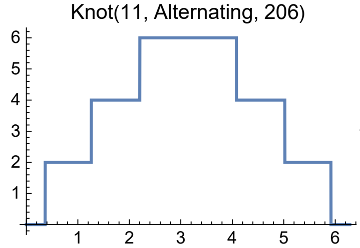

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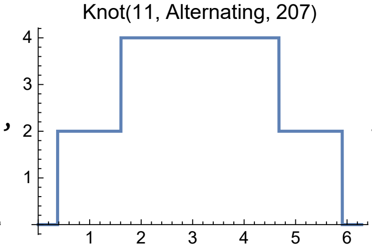

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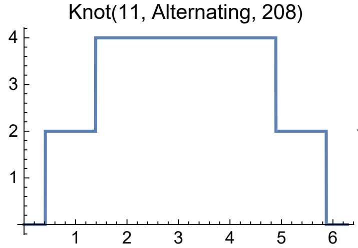

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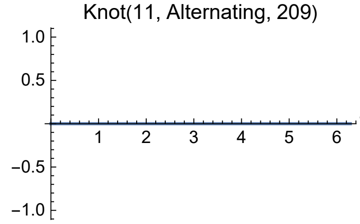

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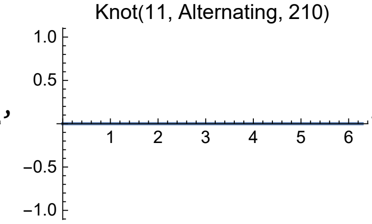

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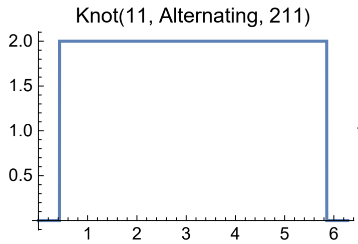
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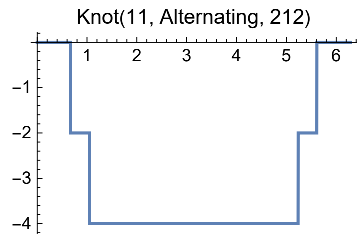
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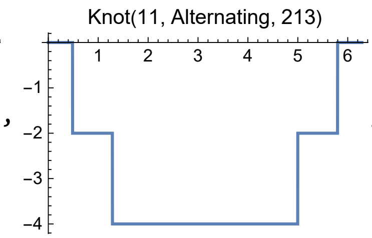
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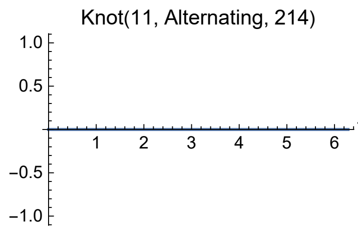
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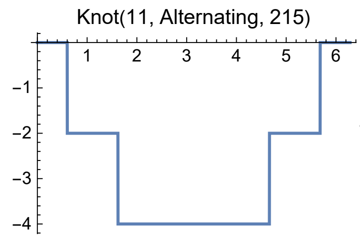
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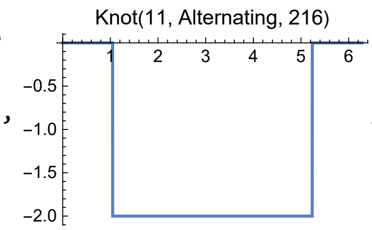
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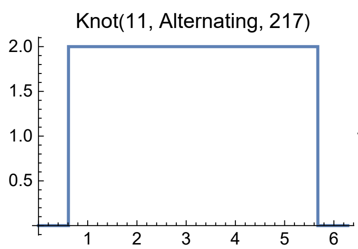
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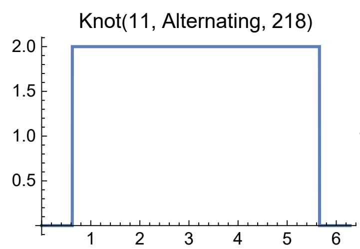
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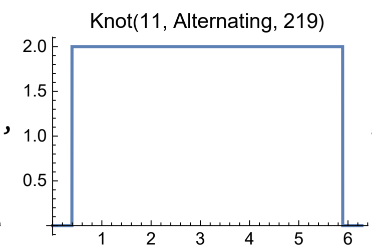
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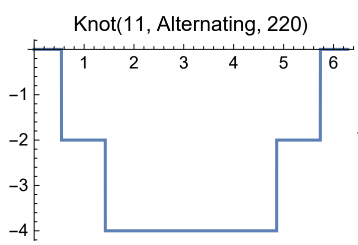
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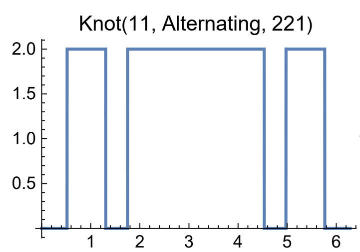
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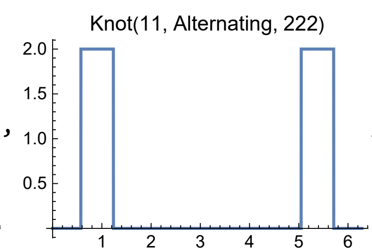
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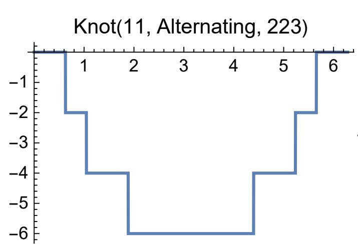
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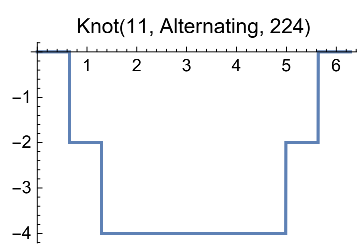
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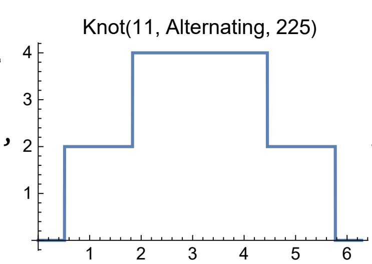
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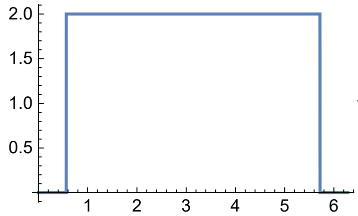

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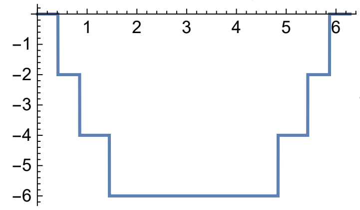

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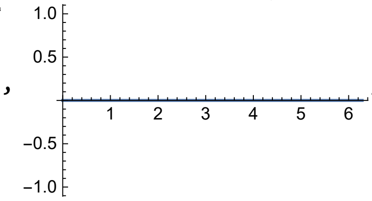

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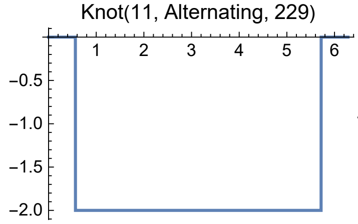

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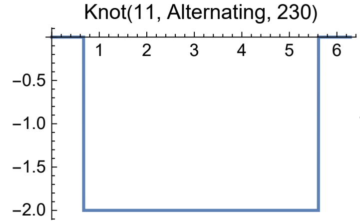

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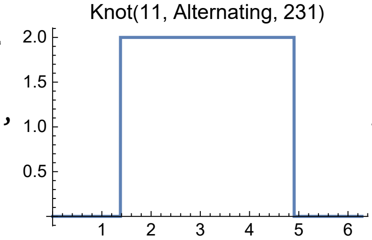

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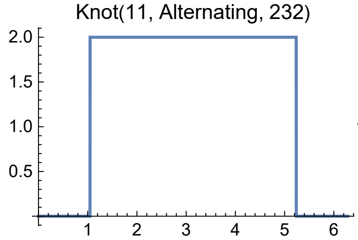

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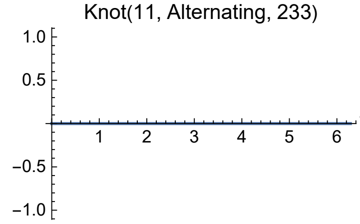

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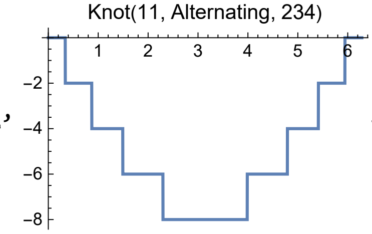

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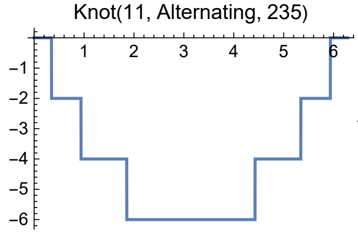

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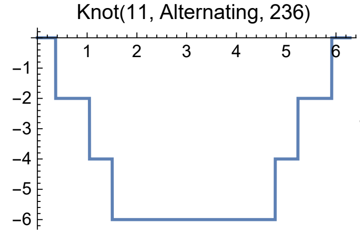

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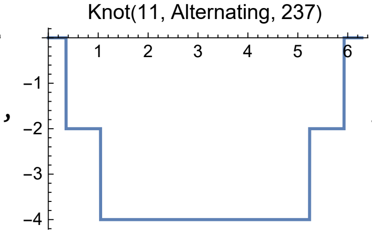

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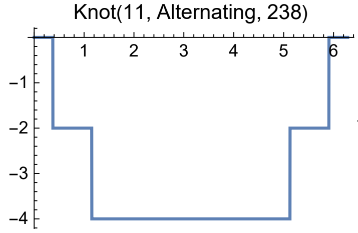

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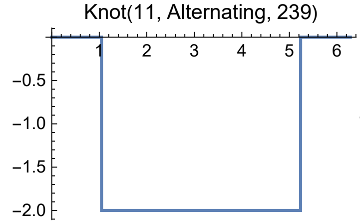

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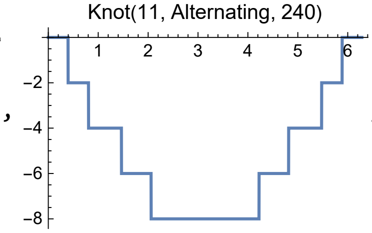

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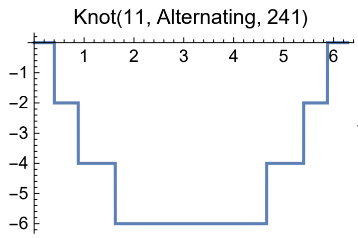
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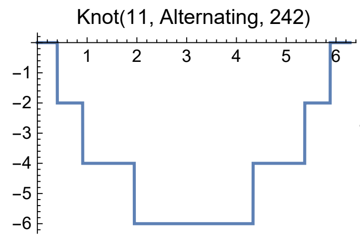
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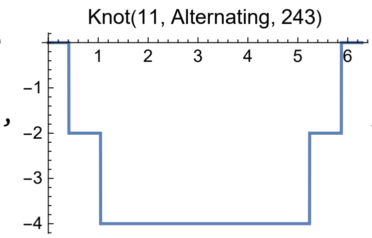
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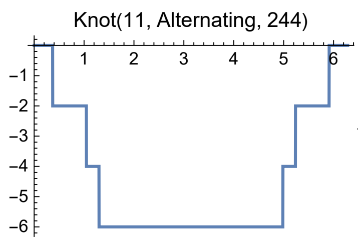
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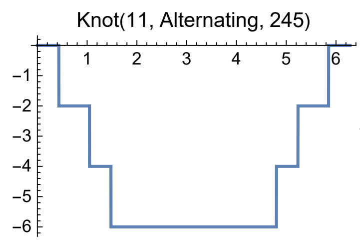
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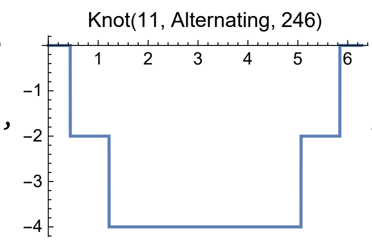
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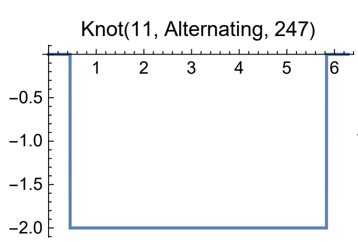
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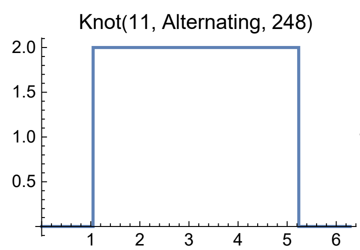
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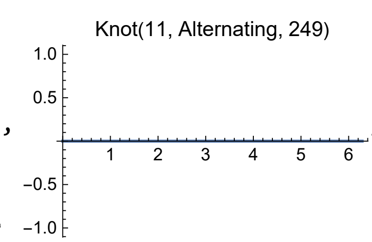
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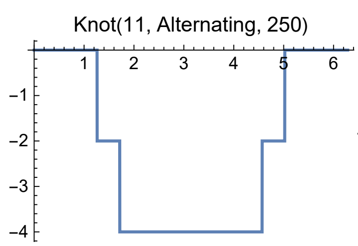
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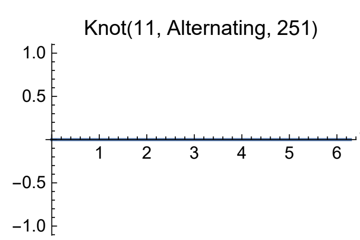
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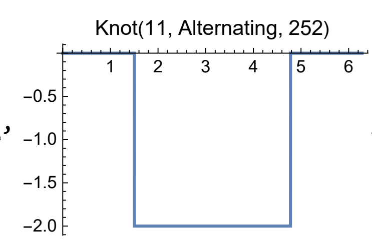
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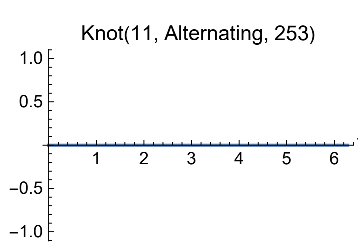
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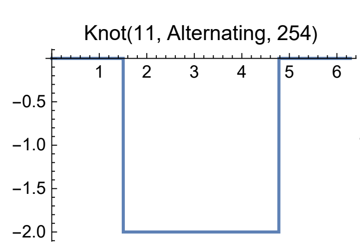
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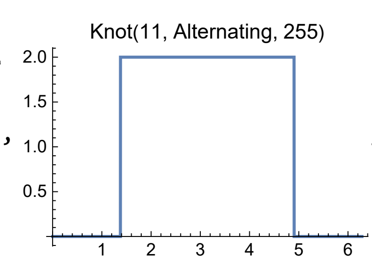
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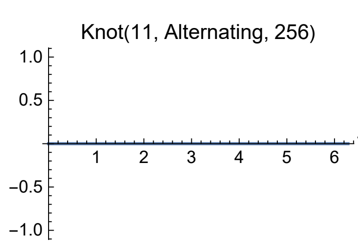
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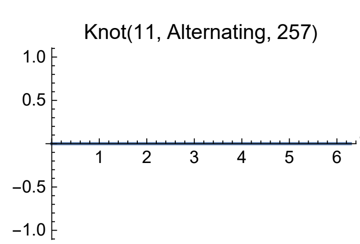
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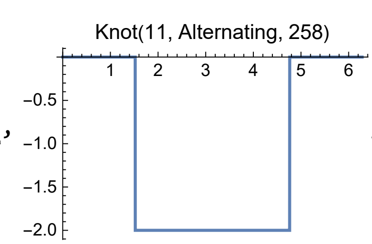
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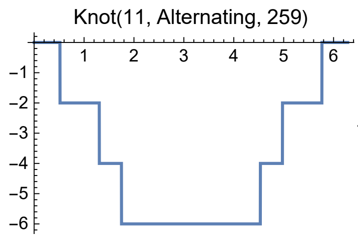
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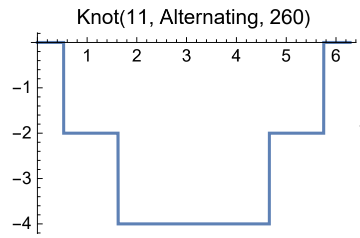
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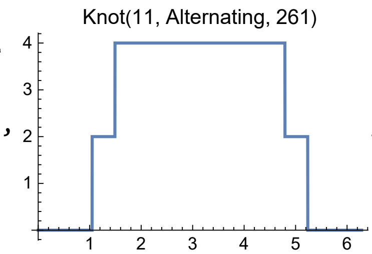
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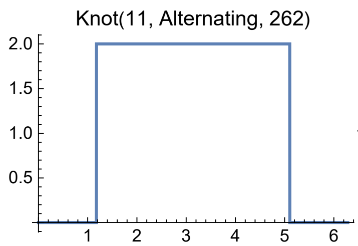
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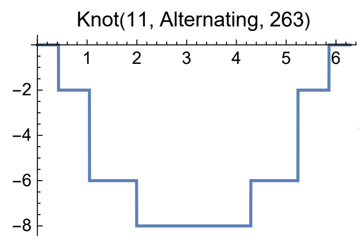
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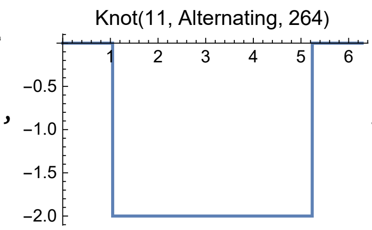
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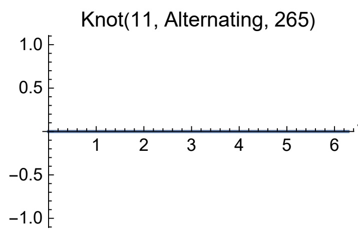
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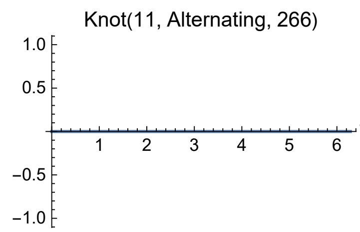
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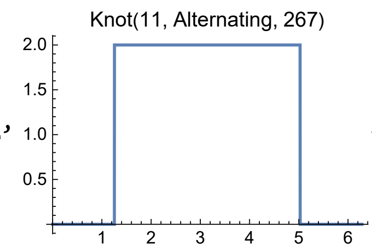
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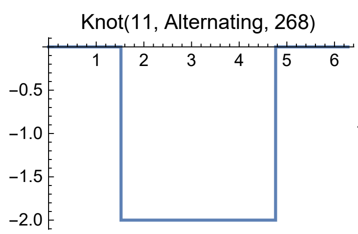
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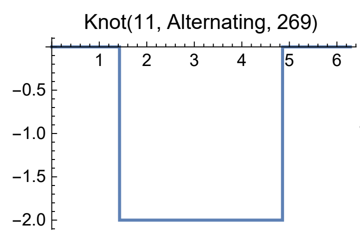
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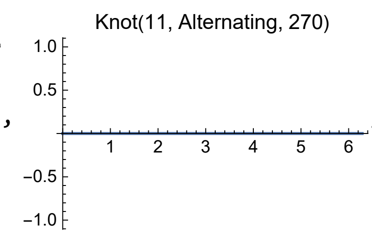
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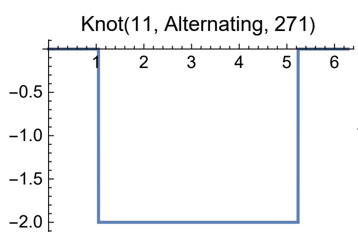
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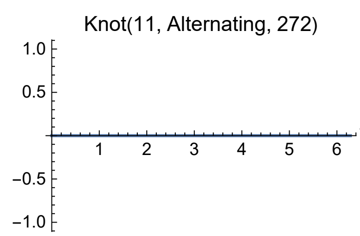
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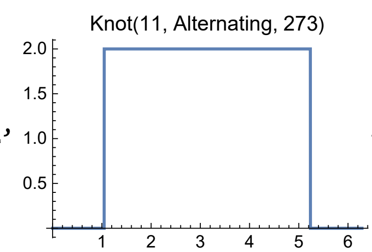
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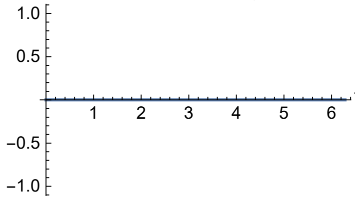


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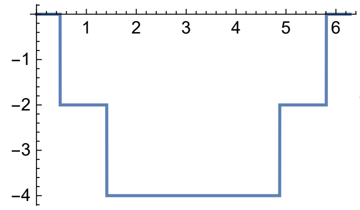


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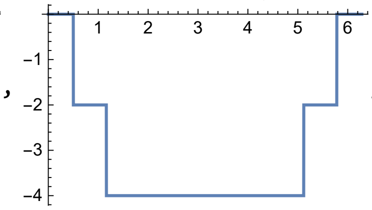


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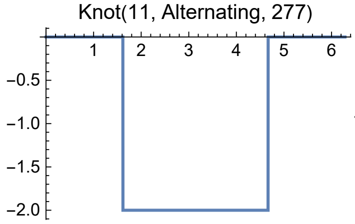


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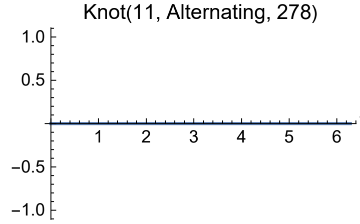


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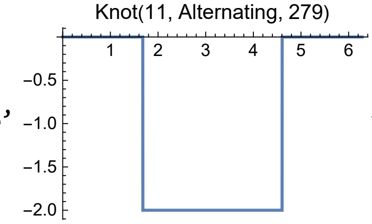


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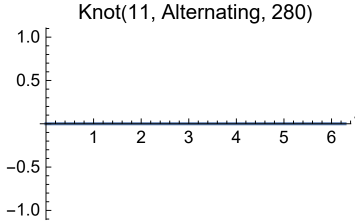


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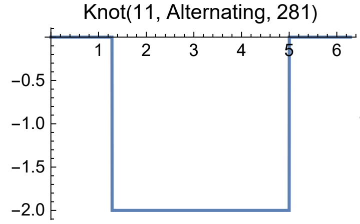


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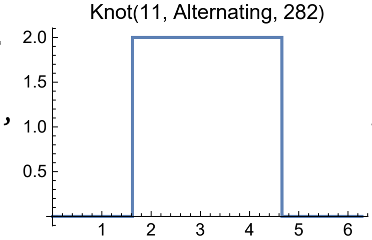


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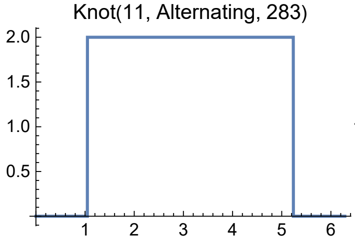


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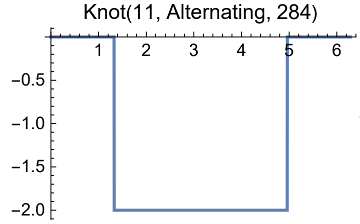


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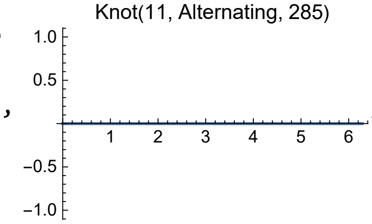


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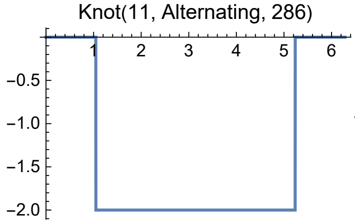


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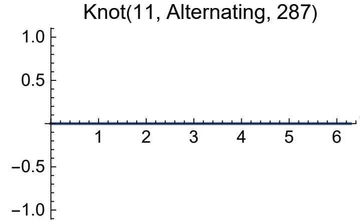


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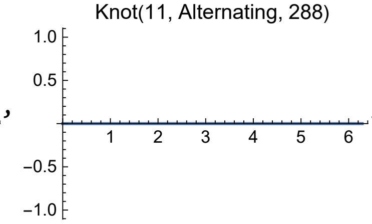


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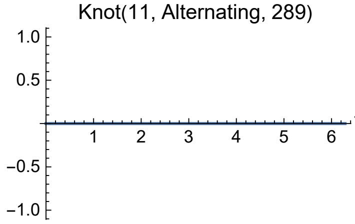


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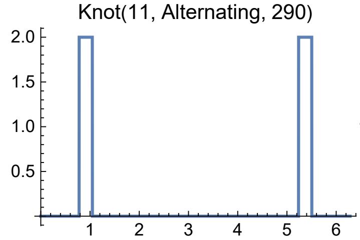


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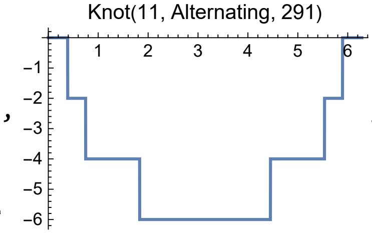


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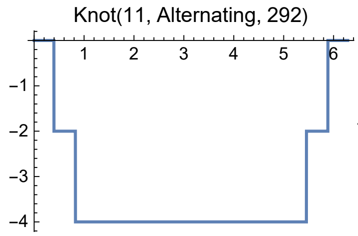
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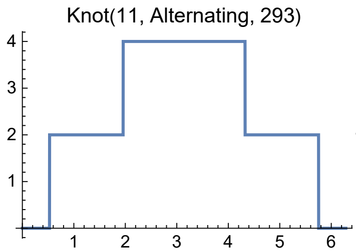
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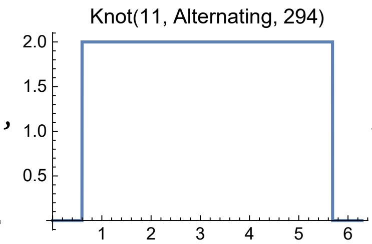
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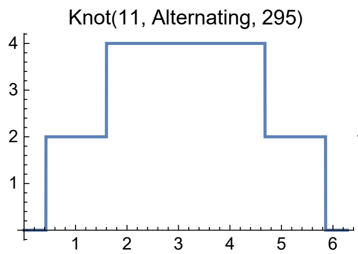
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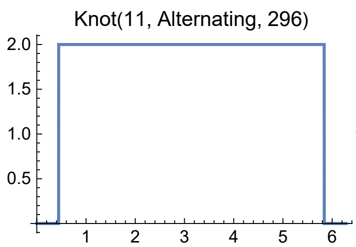
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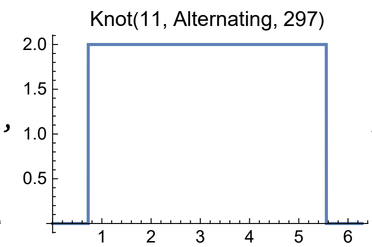
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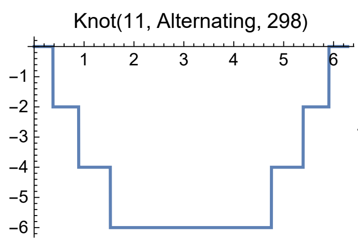
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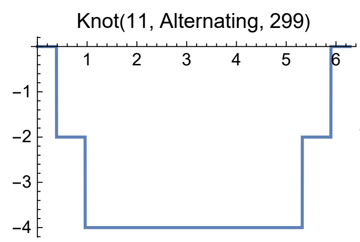
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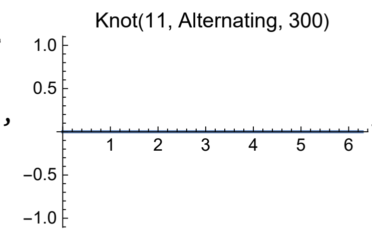
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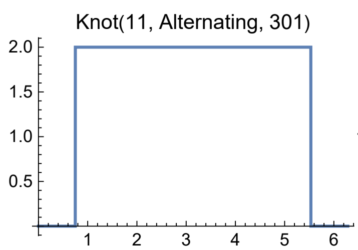
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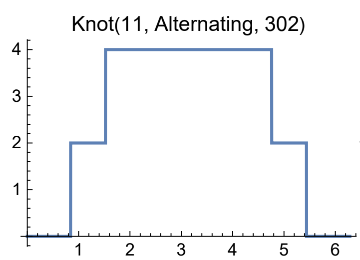
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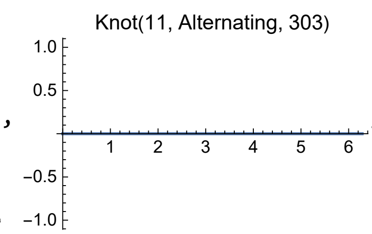
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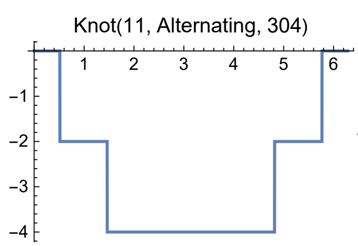
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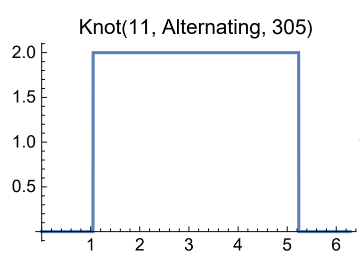
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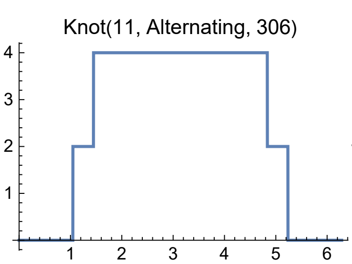
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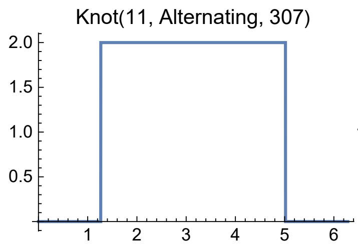
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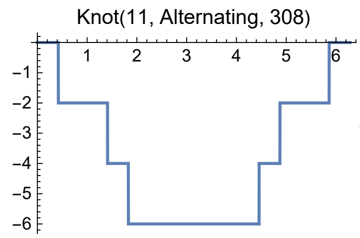
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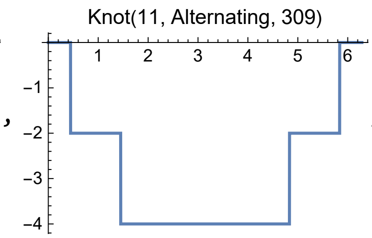
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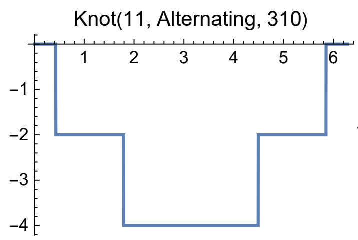
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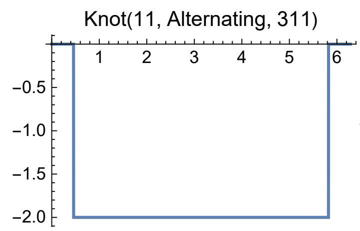
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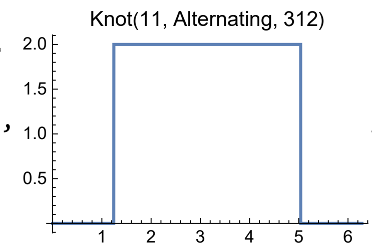
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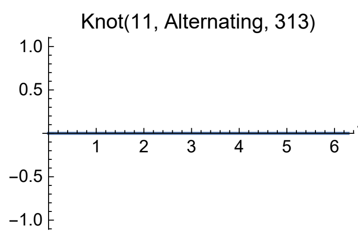
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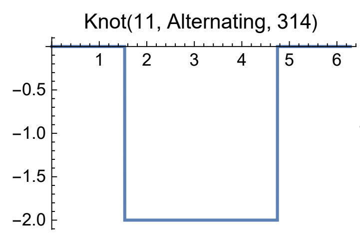
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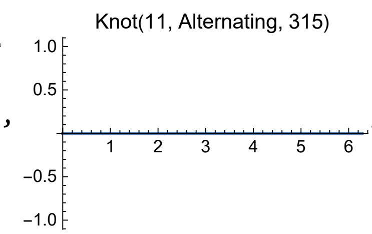
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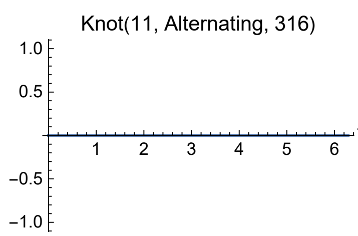
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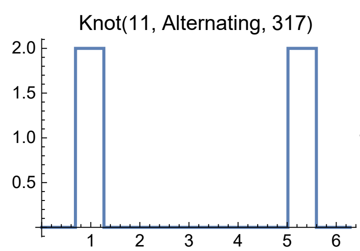
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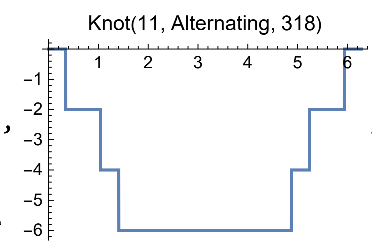
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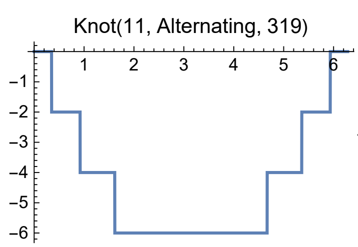
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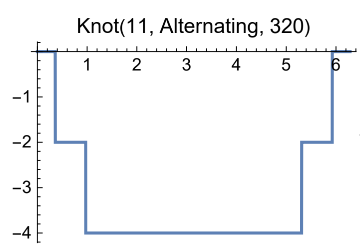
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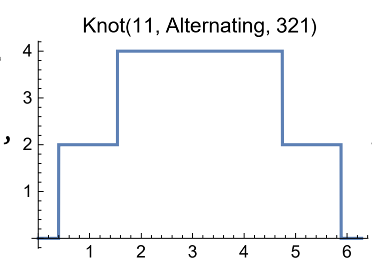
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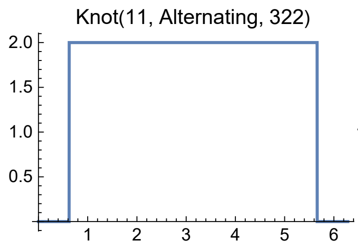
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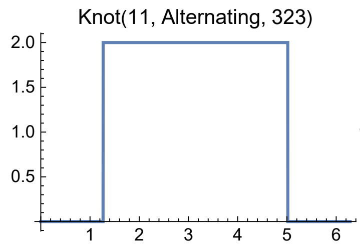
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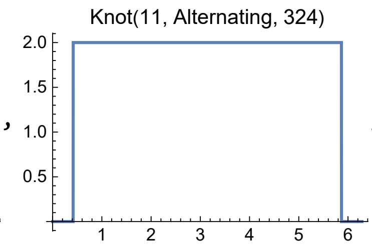
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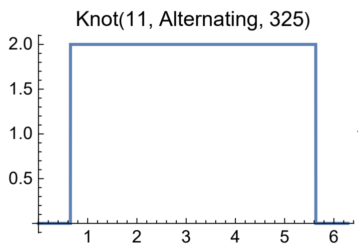
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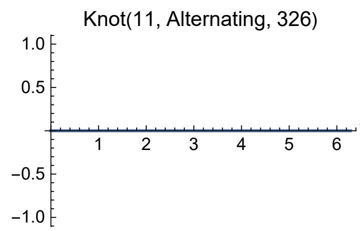
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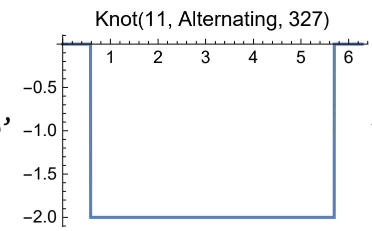
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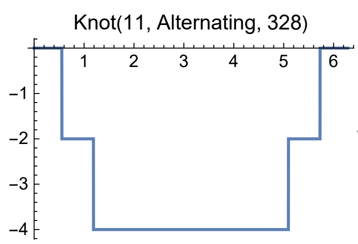
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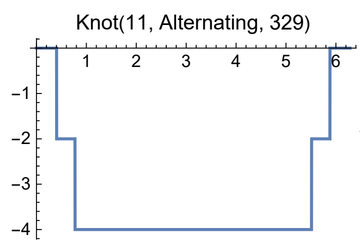
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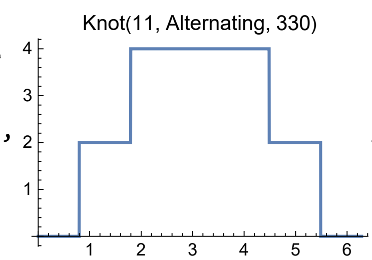
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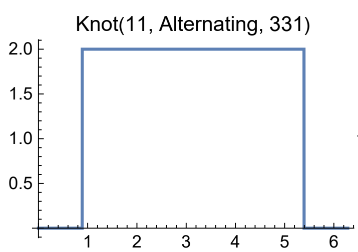
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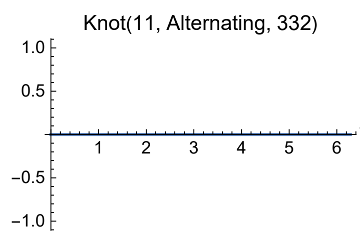
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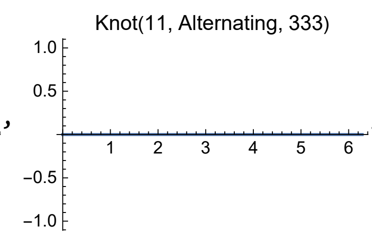
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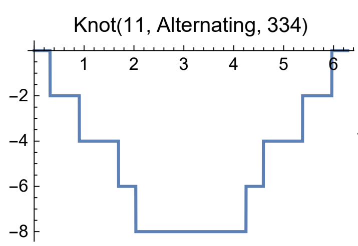
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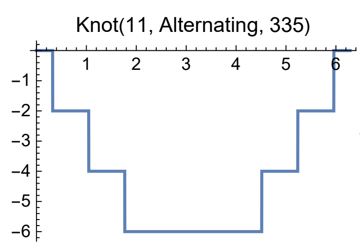
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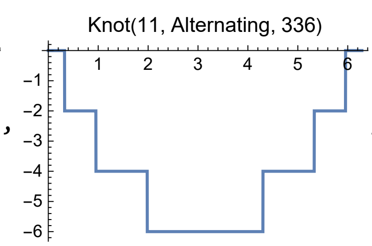
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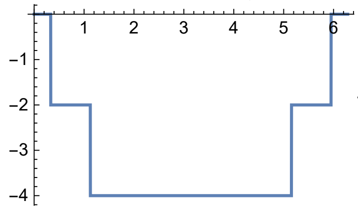

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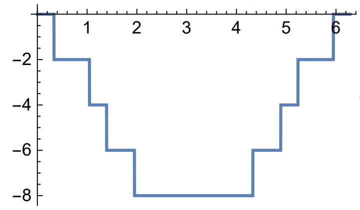

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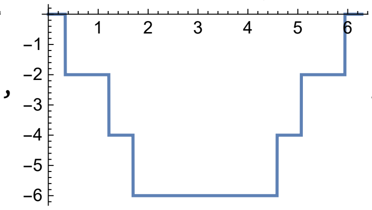

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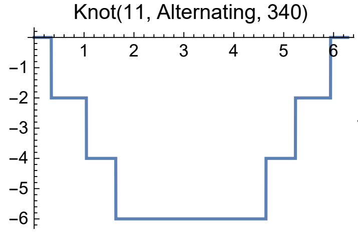

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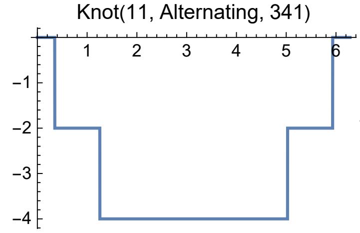

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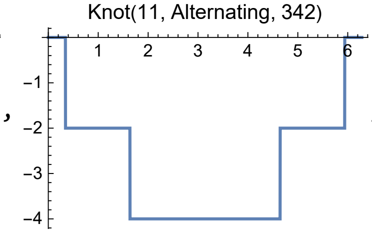

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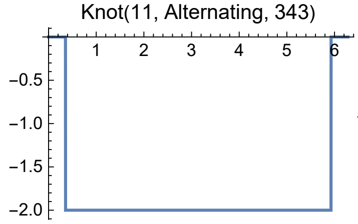

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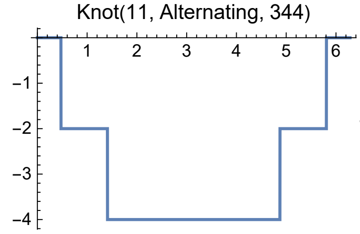

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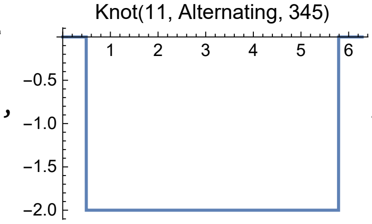

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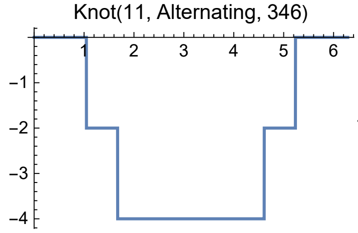

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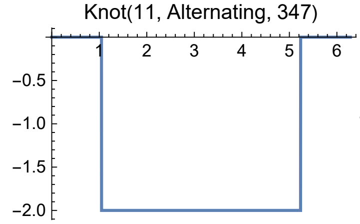

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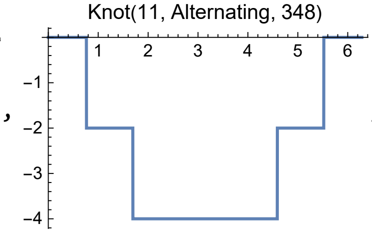

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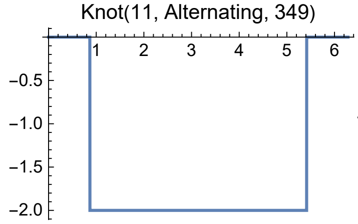

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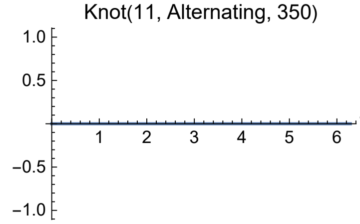

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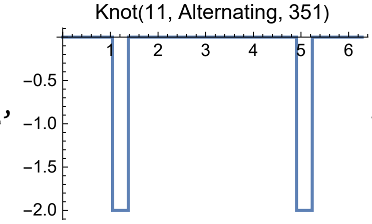

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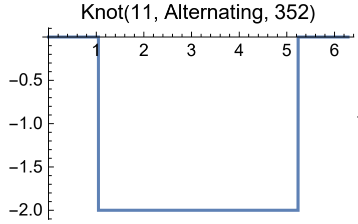

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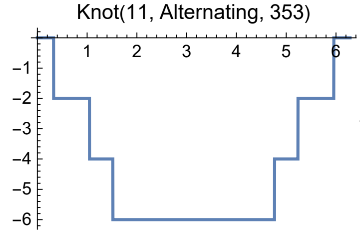

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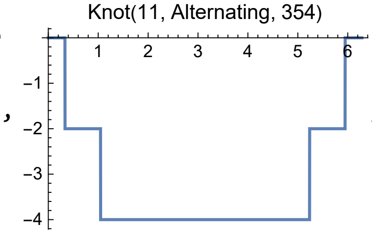

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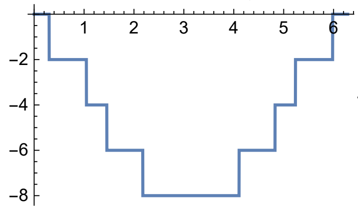


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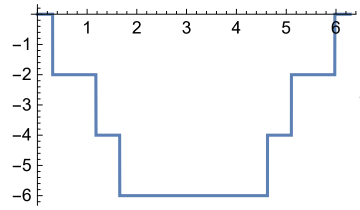


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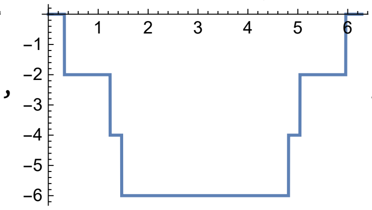


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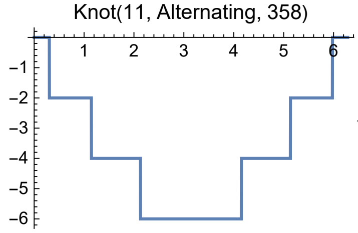


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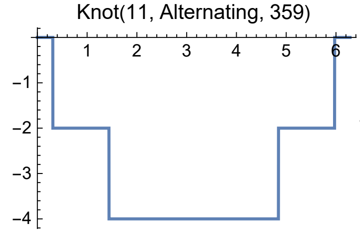


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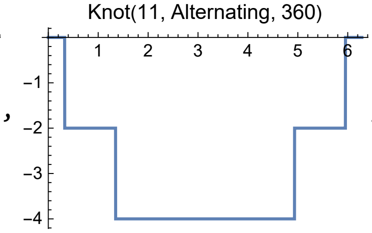


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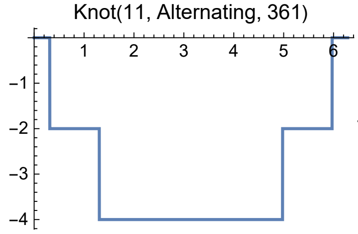


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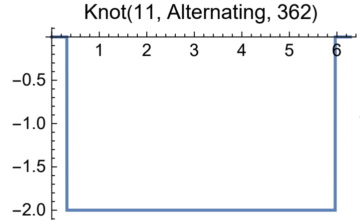


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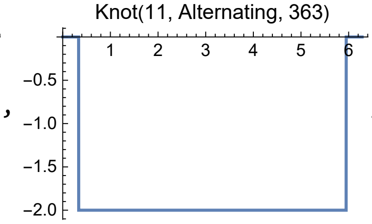


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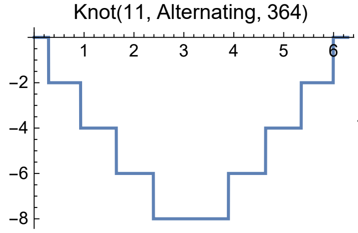


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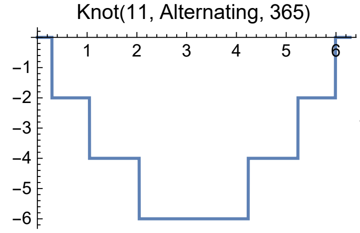


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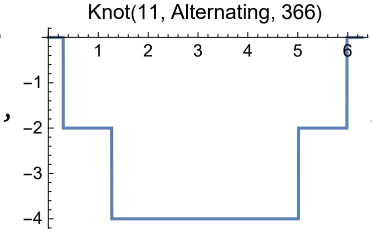


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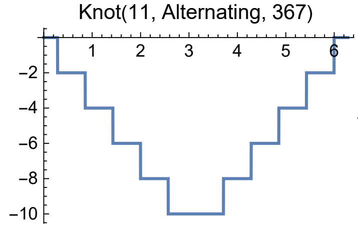


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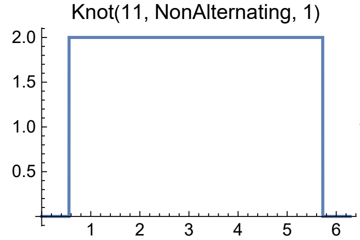


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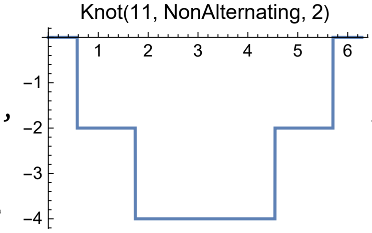


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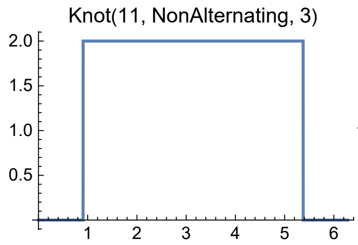
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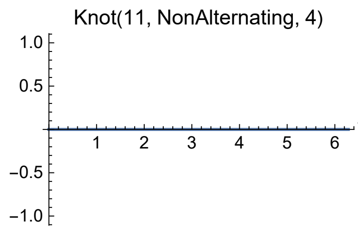
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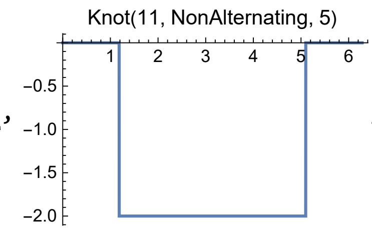
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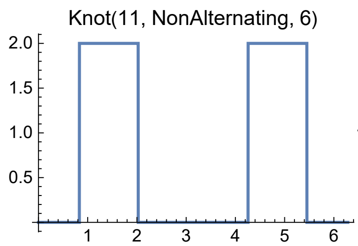
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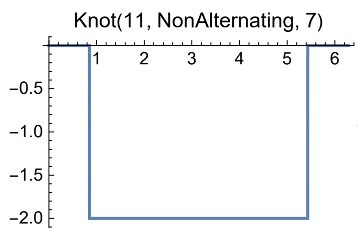
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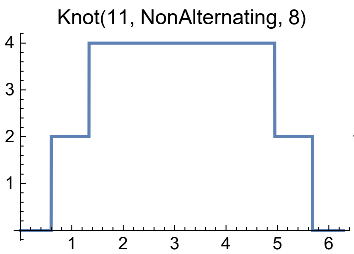
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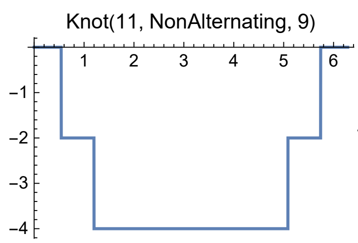
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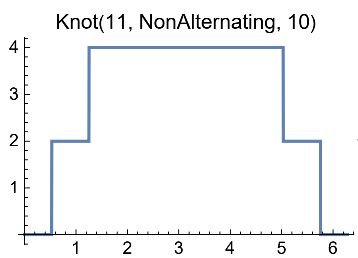
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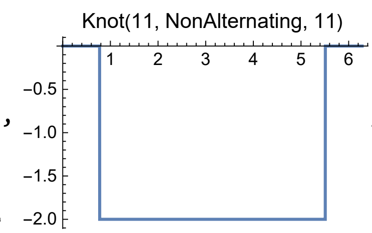
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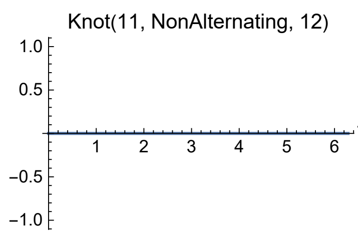
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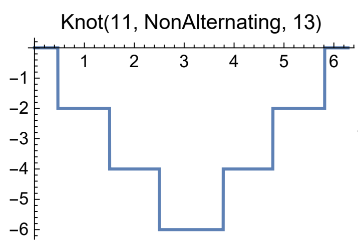
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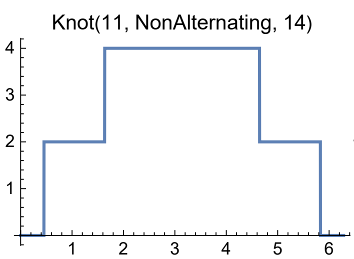
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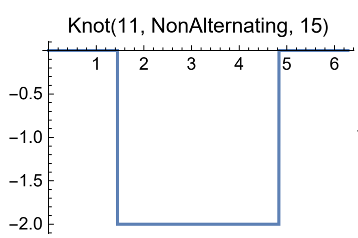
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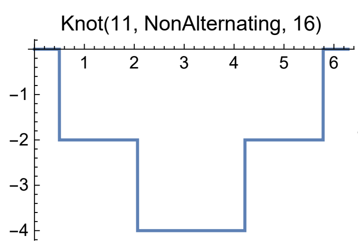
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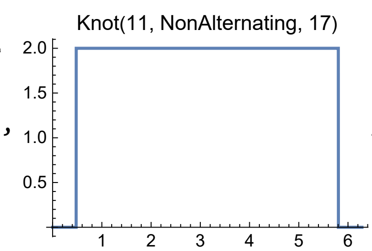
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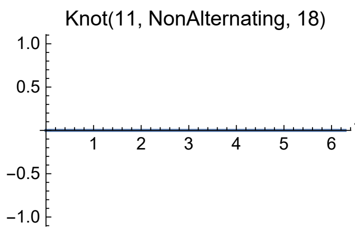
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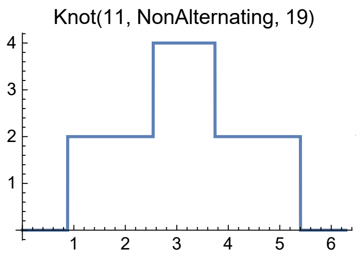
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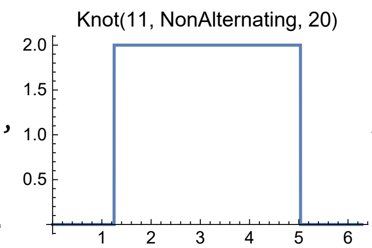
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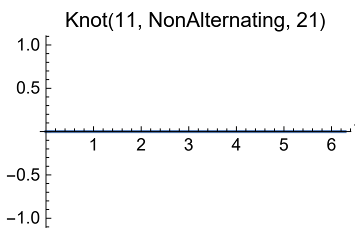
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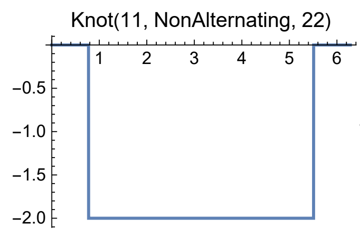
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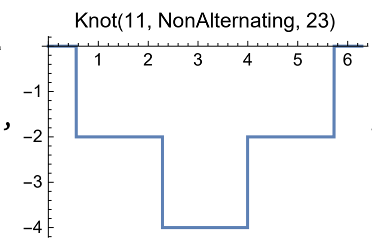
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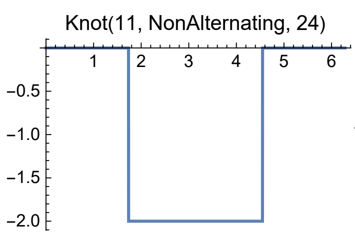
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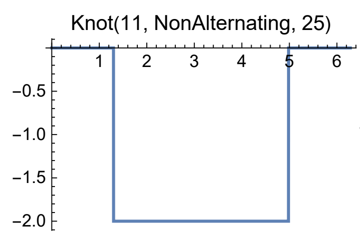
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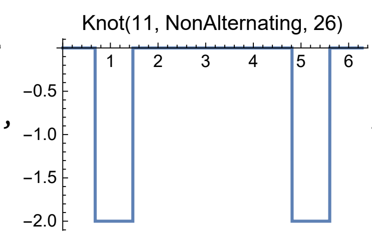
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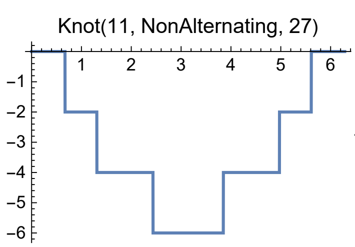
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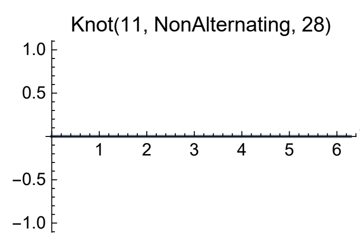
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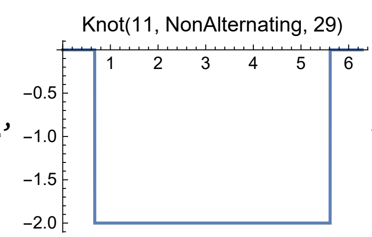
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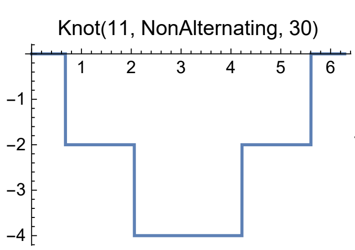
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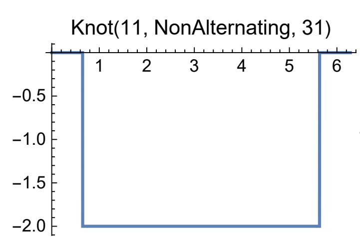
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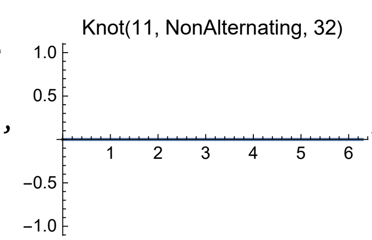
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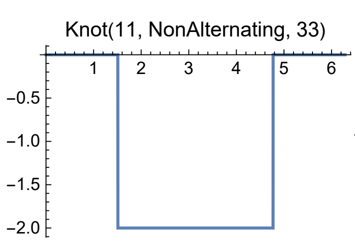
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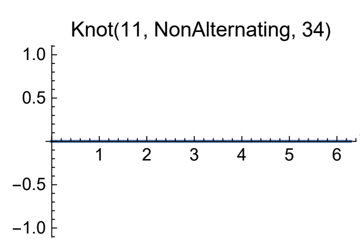
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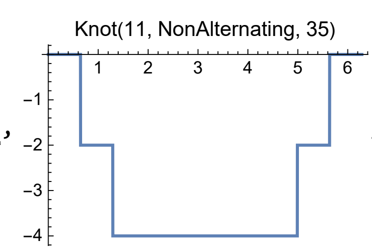
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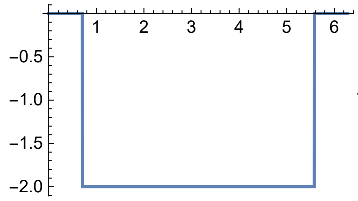


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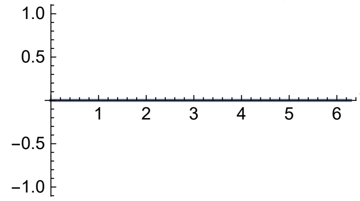


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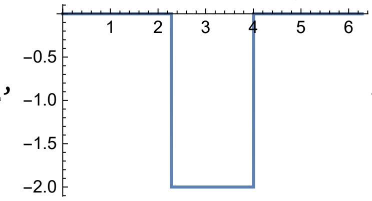


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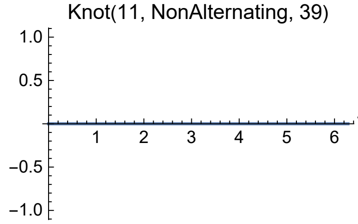


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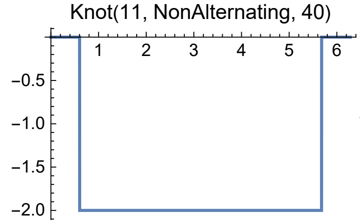


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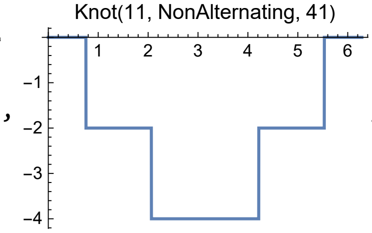


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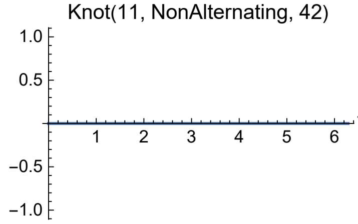


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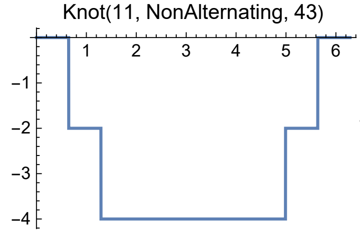


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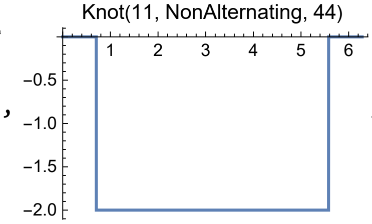


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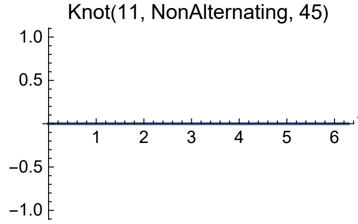


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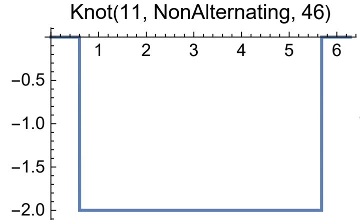


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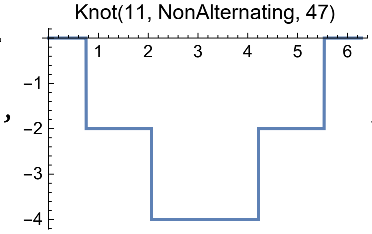


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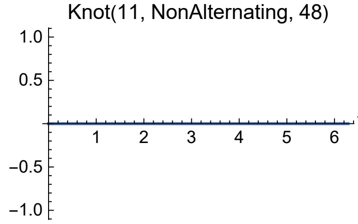


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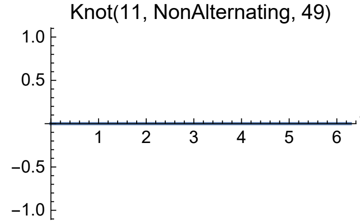


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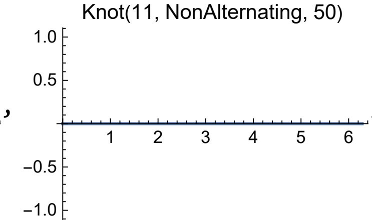


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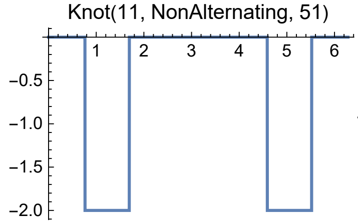


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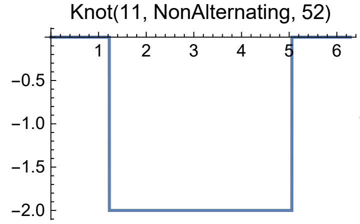


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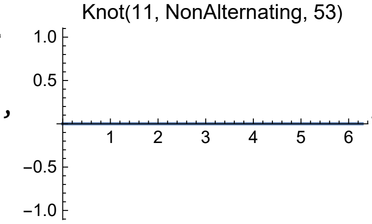


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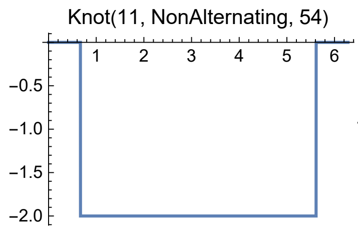
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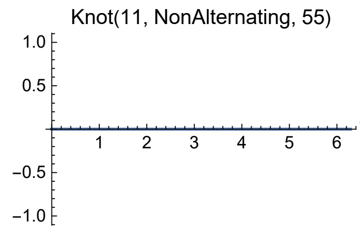
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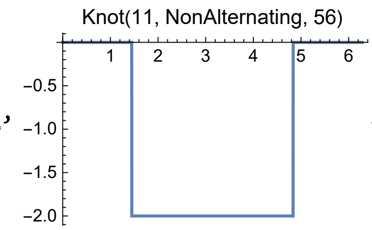
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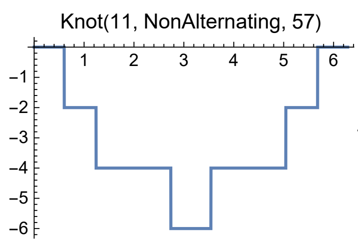
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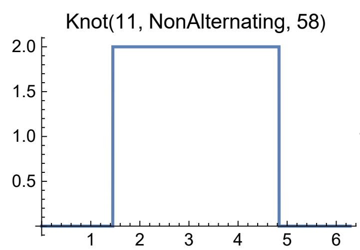
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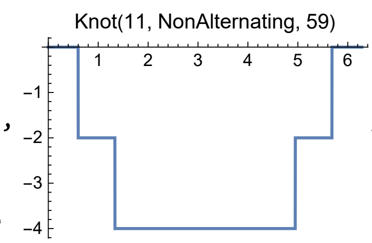
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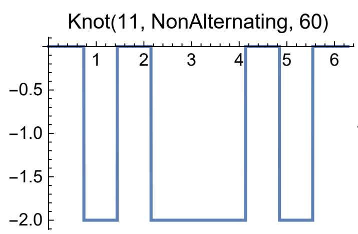
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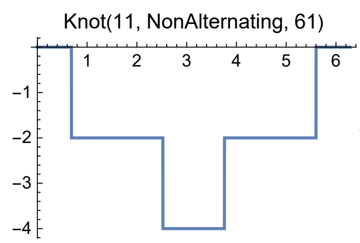
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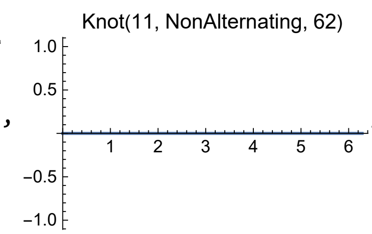
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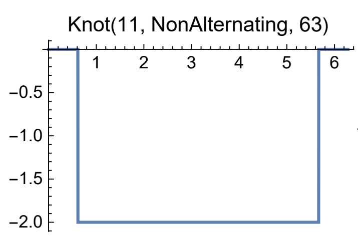
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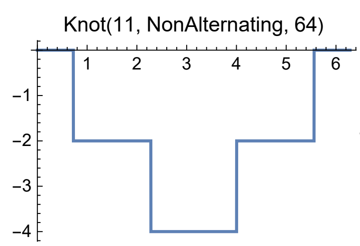
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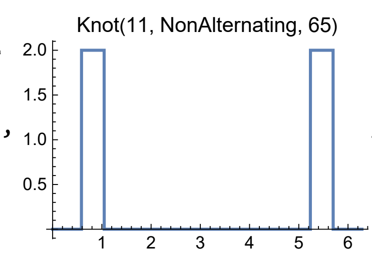
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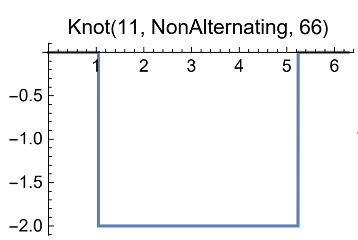
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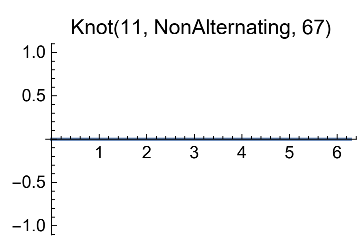
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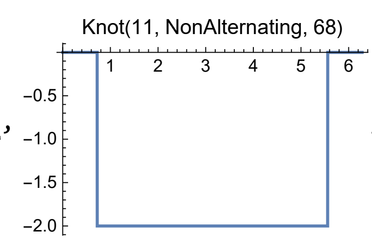
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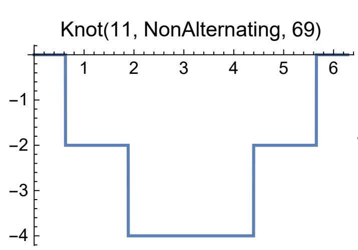
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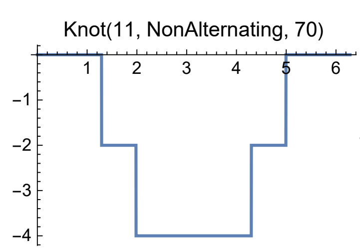
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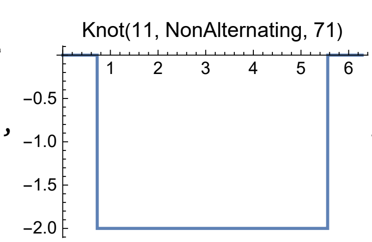
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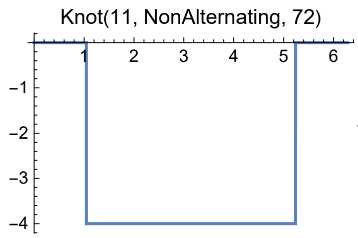
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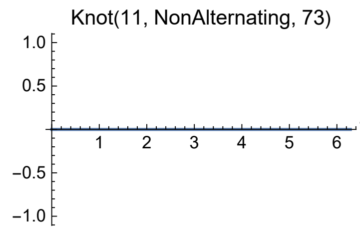
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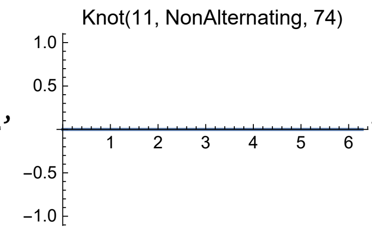
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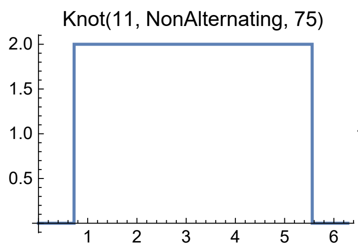
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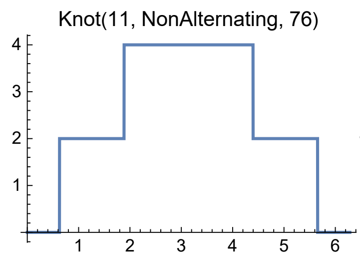
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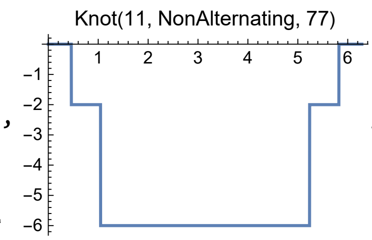
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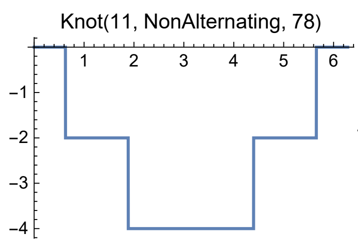
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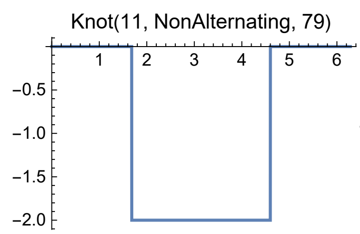
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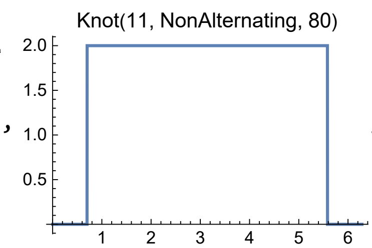
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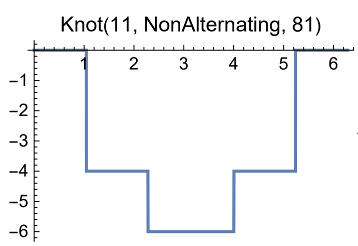
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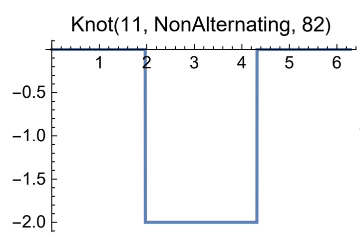
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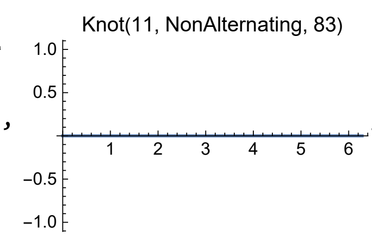
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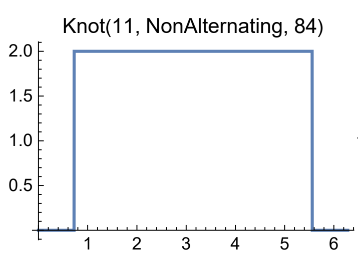
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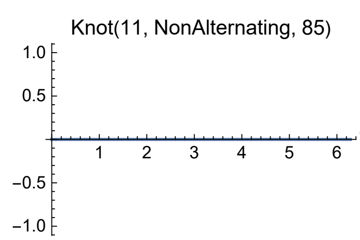
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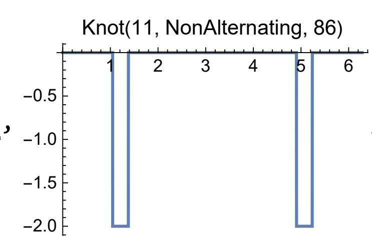
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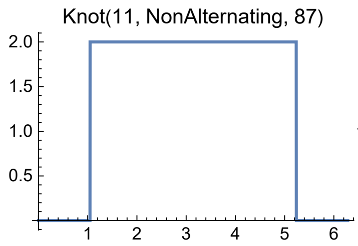
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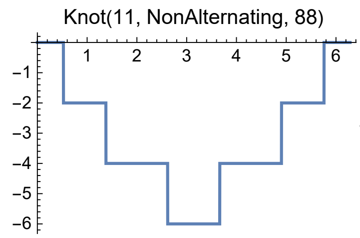
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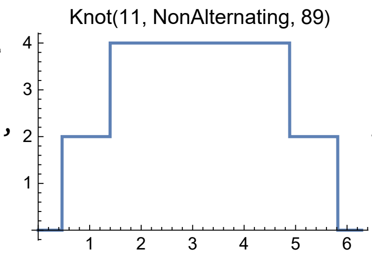
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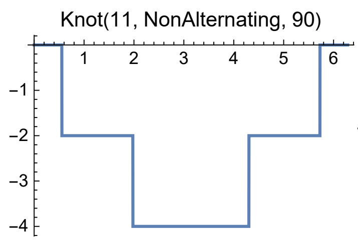
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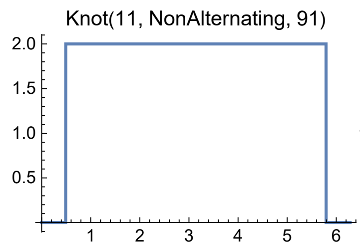
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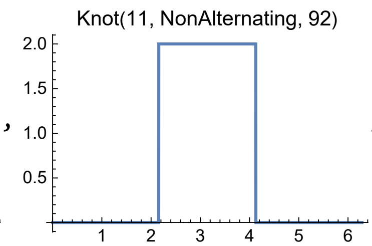
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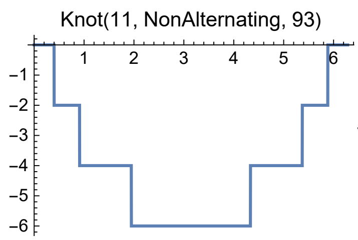
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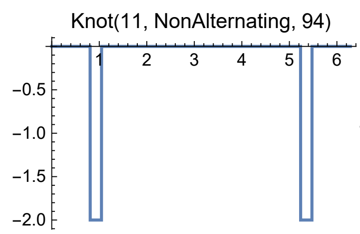
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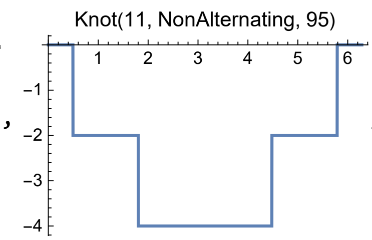
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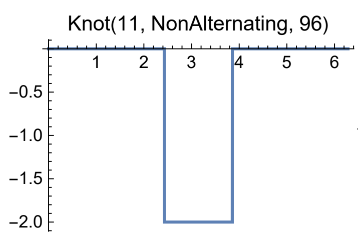
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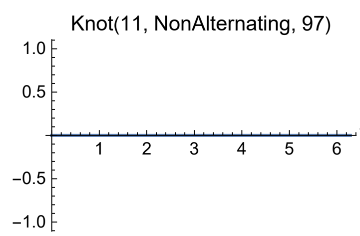
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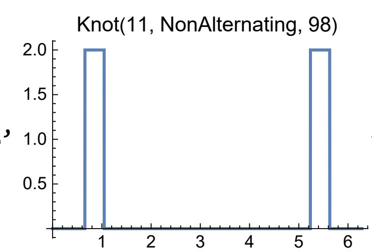
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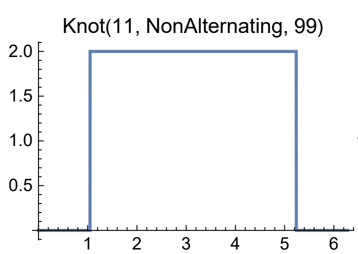
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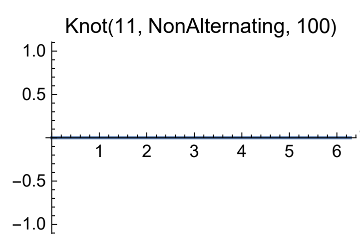
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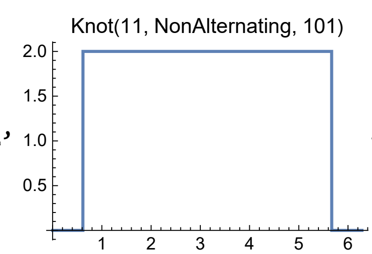
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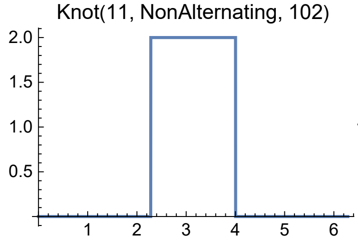
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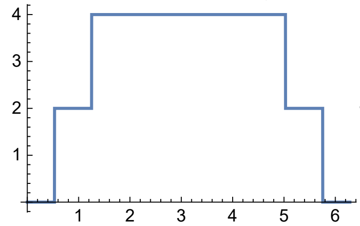
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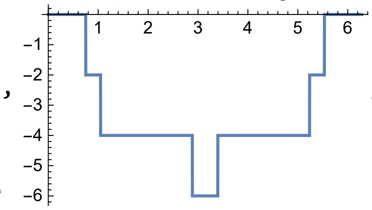
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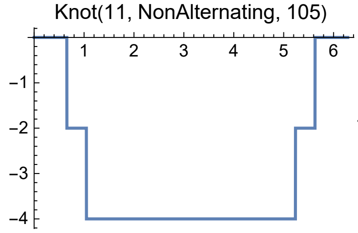
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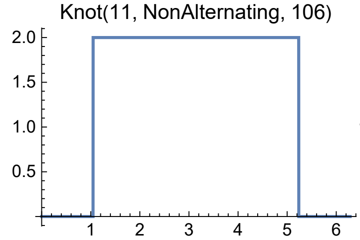
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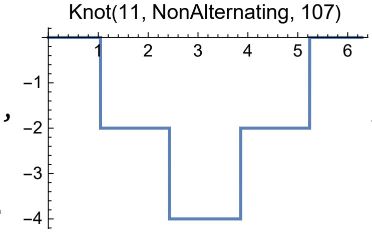
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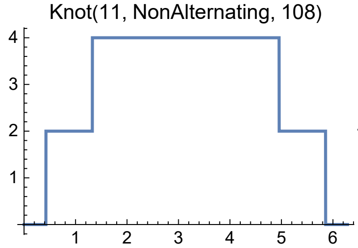
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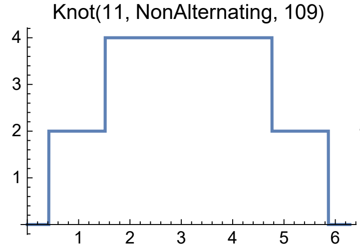
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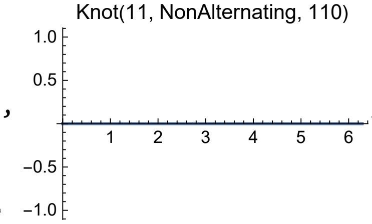
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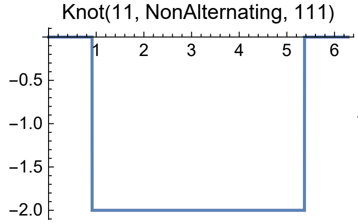
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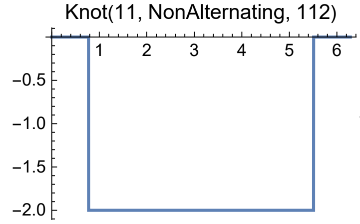
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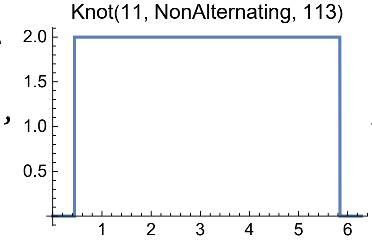
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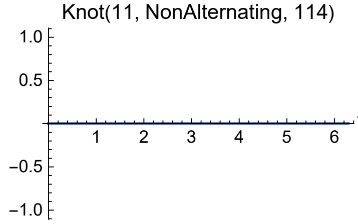
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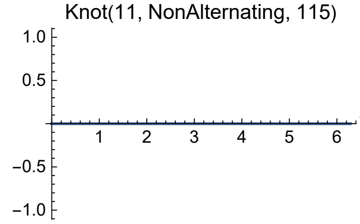
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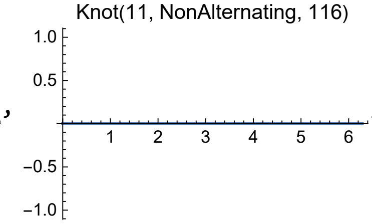
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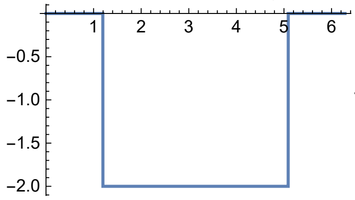

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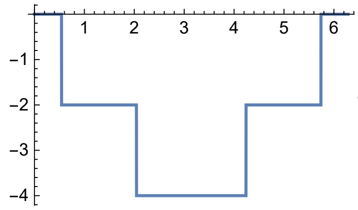

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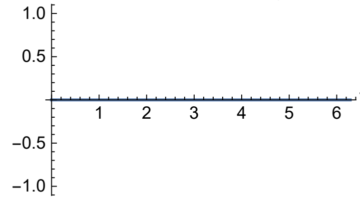

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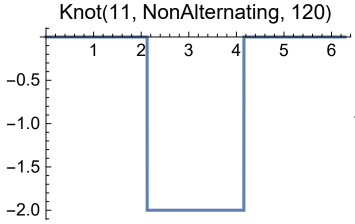

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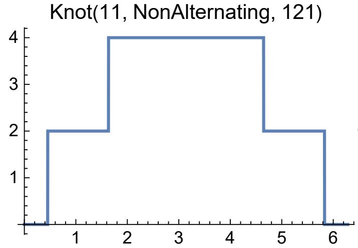

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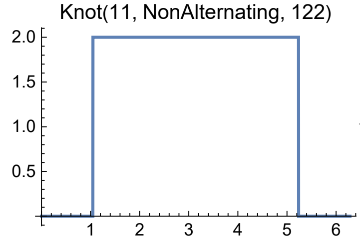

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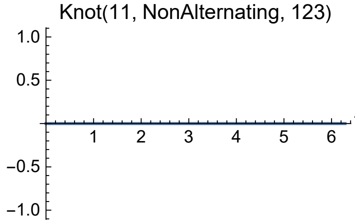

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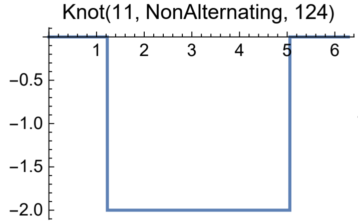

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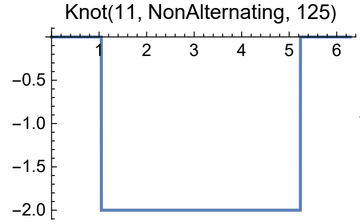

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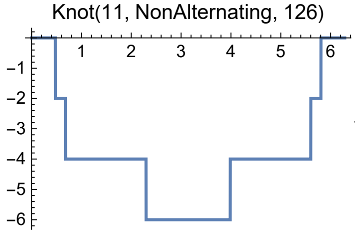

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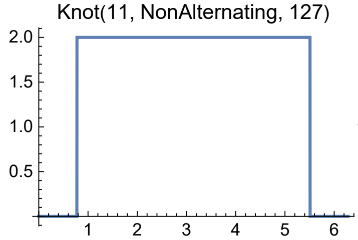

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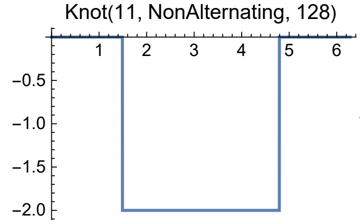

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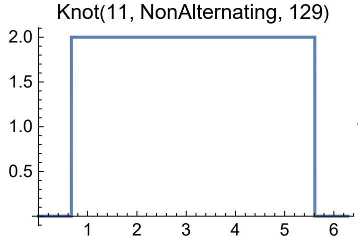

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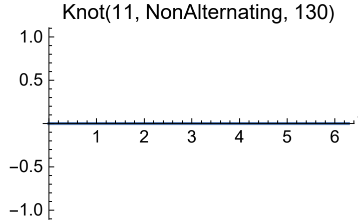

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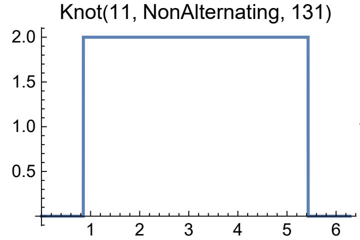

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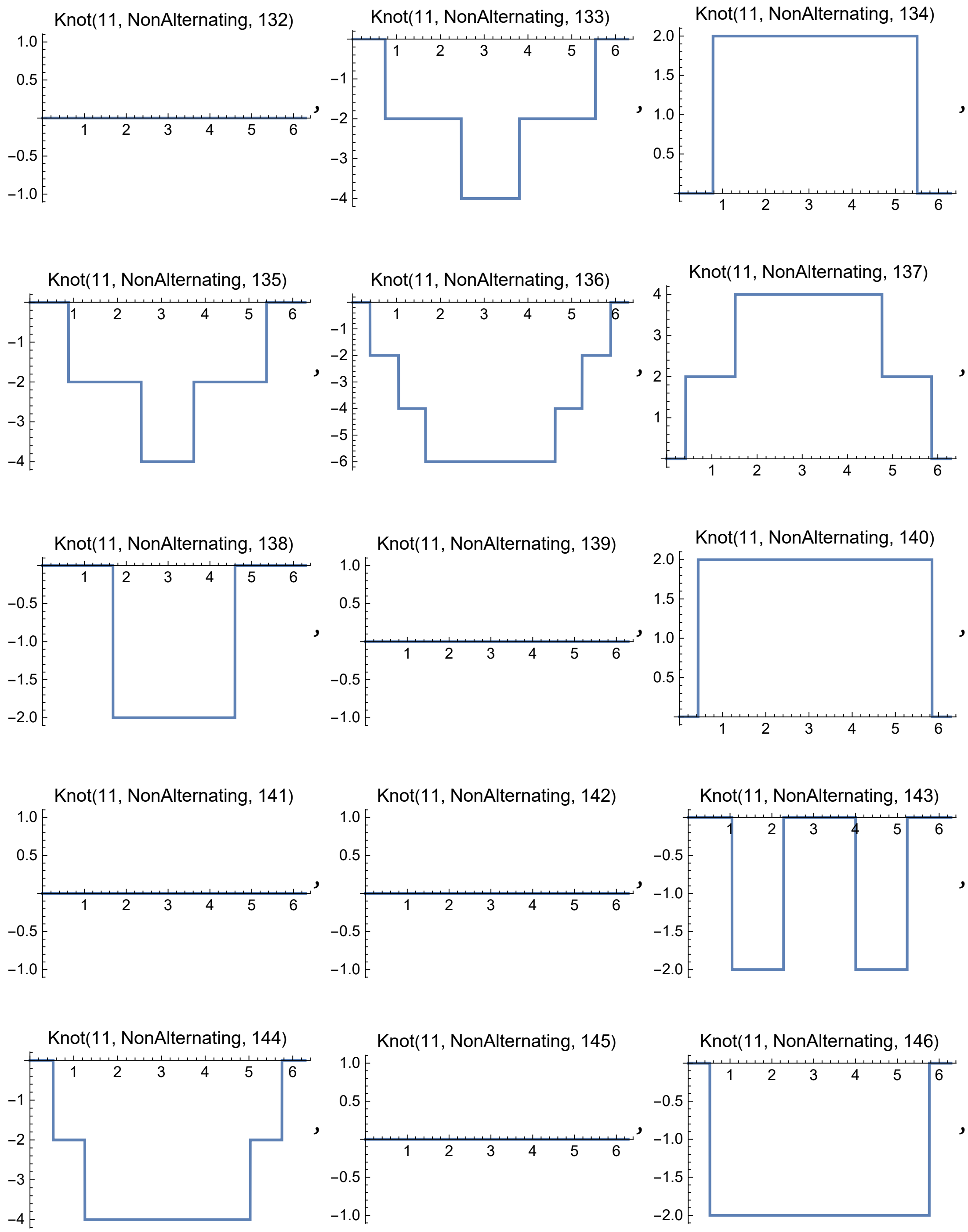
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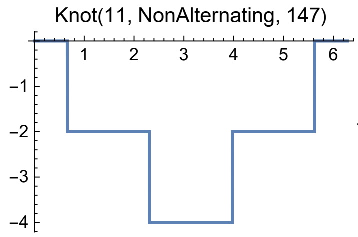
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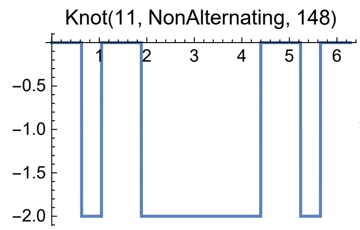
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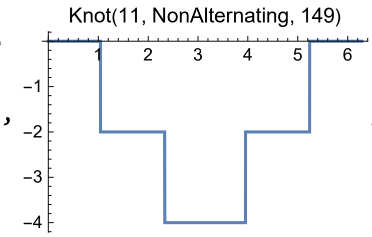
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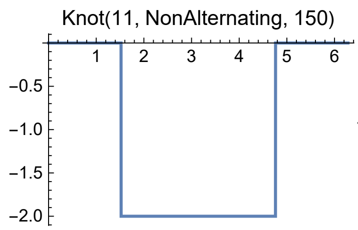
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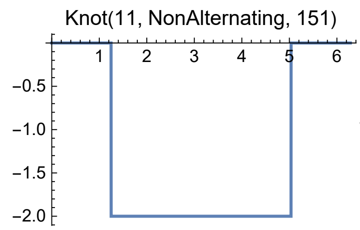
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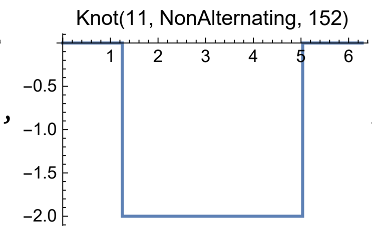
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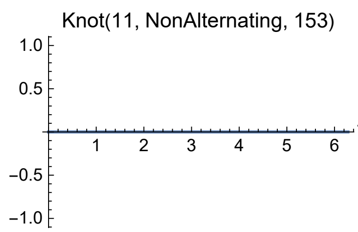
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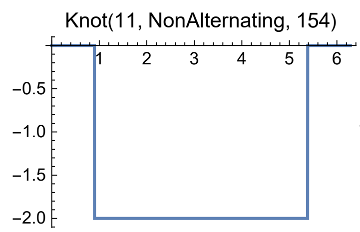
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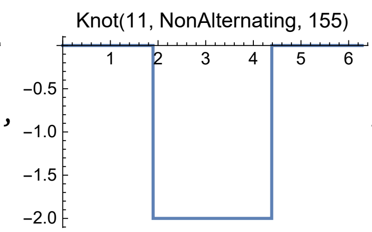
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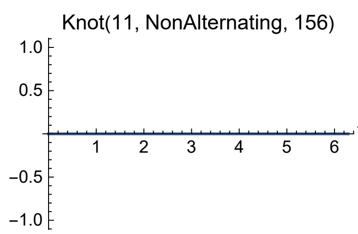
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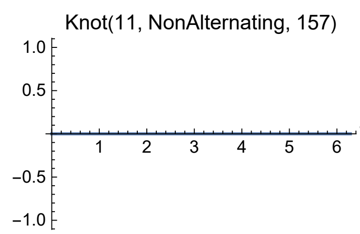
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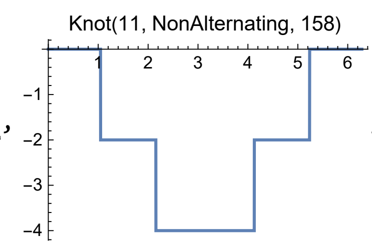
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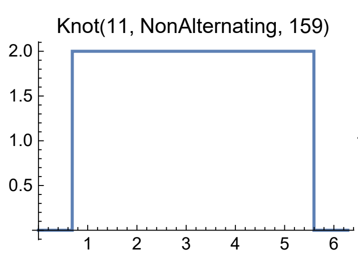
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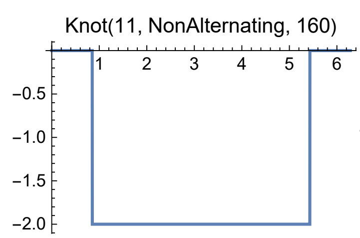
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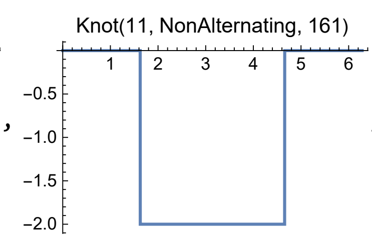
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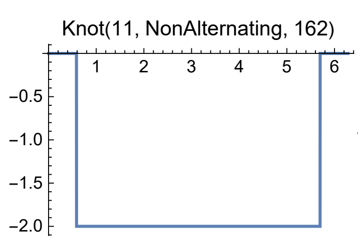
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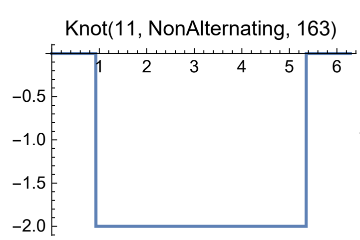
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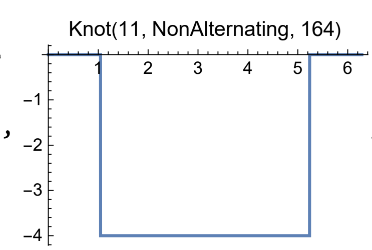
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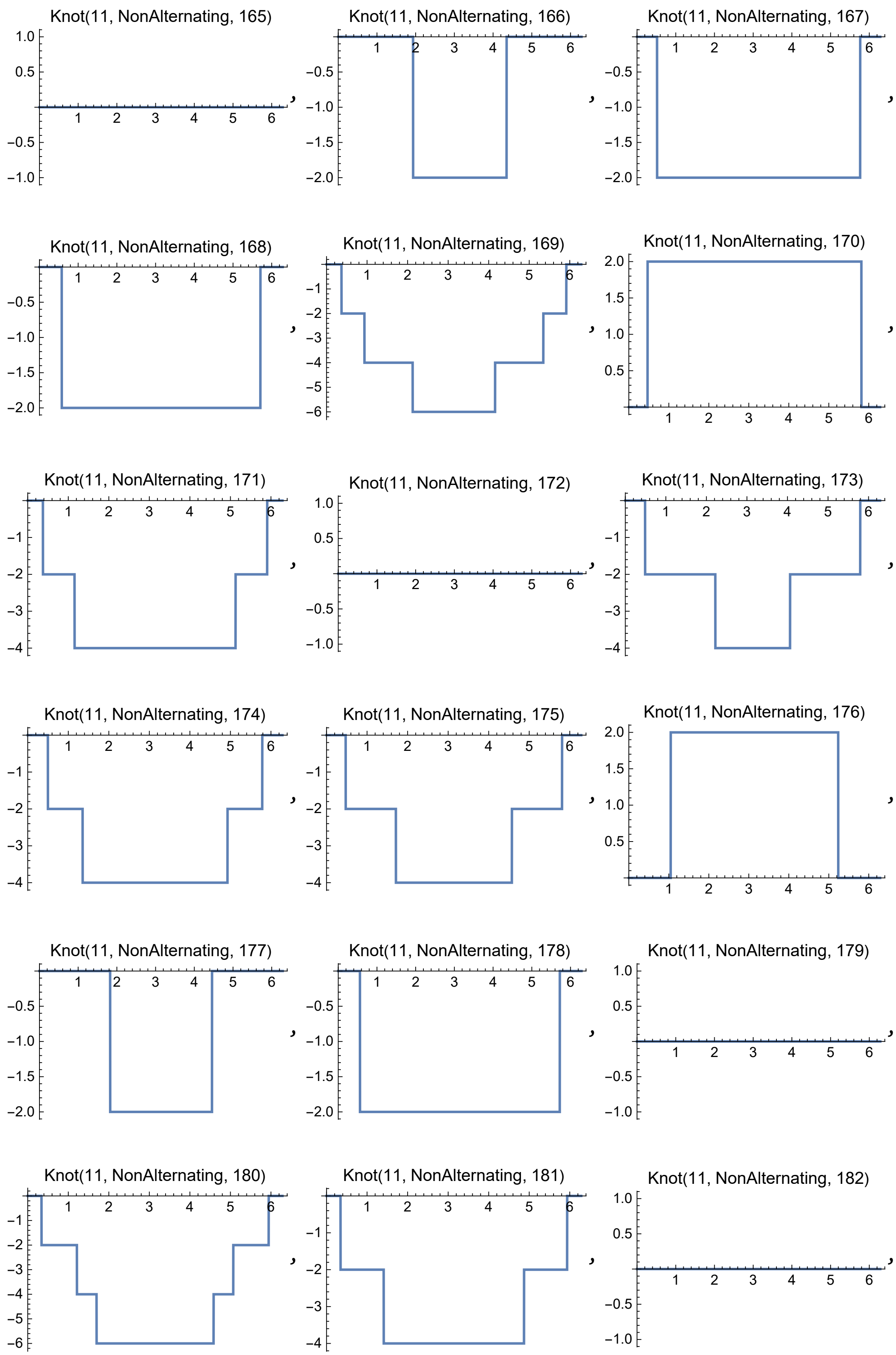
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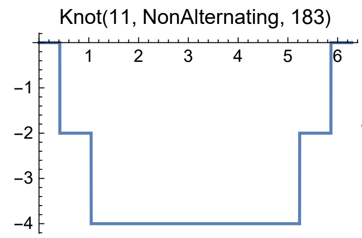
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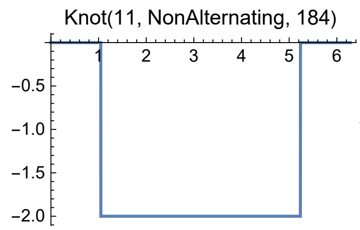
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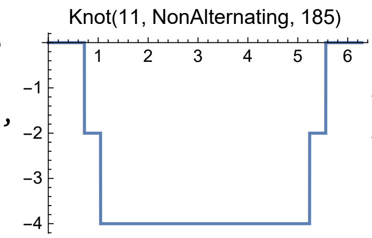
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