

(Alt) In[]:=

```
SetDirectory["C:\\drorbn\\AcademicPensieve\\Projects\\HigherRank"];
<< theta.m
```

Loading KnotTheory` version of February 2, 2020, 10:53:45.2097.

Read more at <http://katlas.org/wiki/KnotTheory>.

Loading Rot.m from <http://drorbn.net/AP/Projects/HigherRank> to compute rotation numbers.

(Alt) In[]:=

```
Expand@Theta[Knot[3, 1]]
```

(Alt) Out[]:=

$$\left\{ -1 + \frac{1}{T} + T, -\frac{1}{T_1^2} - T_1^2 - \frac{1}{T_2^2} - \frac{1}{T_1^2 T_2^2} + \frac{1}{T_1 T_2} + \frac{1}{T_1^2 T_2} + \frac{T_1}{T_2} + \frac{T_2}{T_1} + T_1^2 T_2 - T_2^2 + T_1 T_2^2 - T_1^2 T_2^2 \right\}$$

(Alt) In[]:=

```
TestSymmetries[Knot[3, 1]]
```

(Alt) Out[]:=

True

NumberOfKnots[10, Alternating] = 123

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NumberOfKnots[12, Alternating] = 1288

NumberOfKnots[13, Alternating] = 4878

NumberOfKnots[14, Alternating] = 19536

NumberOfKnots[15, Alternating] = 85263

NumberOfKnots[16, Alternating] = 379799

NumberOfKnots[10, NonAlternating] = 42

NumberOfKnots[11, NonAlternating] = 185

NumberOfKnots[12, NonAlternating] = 888

NumberOfKnots[13, NonAlternating] = 5110

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NumberOfKnots[15, NonAlternating] = 168030

NumberOfKnots[16, NonAlternating] = 1008906

(Alt) In[]:=

```
AbsoluteTiming[Monitor[
  tab14 = Table[K → Expand@@@K, {K, AllKnots[{3, 14]}]],
  K]]
```

KnotTheory: Loading precomputed data in KnotTheory/12A.dts.

KnotTheory: Loading precomputed data in KnotTheory/12N.dts.

KnotTheory: Loading precomputed data in KnotTheory/13A.dts.

General: Further output of KnotTheory::loading will be suppressed during this calculation.

(Alt) Out[]:=



(Alt) In[]:=

```
Put[tab14 /. {T1 → T1, T2 → T2}, "Data14.m"]
```

(Alt) In[]:=

```
dup14 = Map[First, Select[Gather[tab14, Last[#1] === Last[#2] &], Length[#] > 1 &], {2}]
```

(Alt) Out[]:=

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(Alt) In[]:=

```
Sort[Length /@ dup14]
```



```
(Alt) In[ ]:=
  Total[ (Length /@ dup14Q) - 1]
```

```
(Alt) Out[ ]=
  6452
```

```
(Alt) In[ ]:=
  dup14Q =
  Map[First, Select[Gather[tab14 /. {T1 → 22 / 7, T2 → 34 / 21}, Last[#1] === Last[#2] &],
    Length[#] > 1 &], {2}]
```

```
(Alt) Out[ ]=
```



```
(Alt) In[ ]:=
  Total[ (Length /@ dup14Q) - 1]
```

```
(Alt) Out[ ]=
  1118
```

```
(Alt) In[ ]:=
  AbsoluteTiming[Monitor[
    tab15Q = Table[K →  $\Theta_{22/7, 34/21}$ @K, {K, AllKnots[{3, 15]} }],
    K]
```

```
... KnotTheory: Loading precomputed data in KnotTheory/12A.dts.
```

```
... KnotTheory: Loading precomputed data in KnotTheory/12N.dts.
```

```
... KnotTheory: Loading precomputed data in KnotTheory/13A.dts.
```

```
... General: Further output of KnotTheory::loading will be suppressed during this calculation.
```

```
(Alt) Out[ ]=
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```
(Alt) In[ ]:=
  dup15Q = Map[First, Select[Gather[tab15Q, Last[#1] === Last[#2] &], Length[#] > 1 &], {2}]
```

```
(Alt) Out[ ]=
```



```
(Alt) In[ ]:=
  Total[ (Length /@ dup15Q) - 1]
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```
(Alt) Out[ ]=
  3481
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