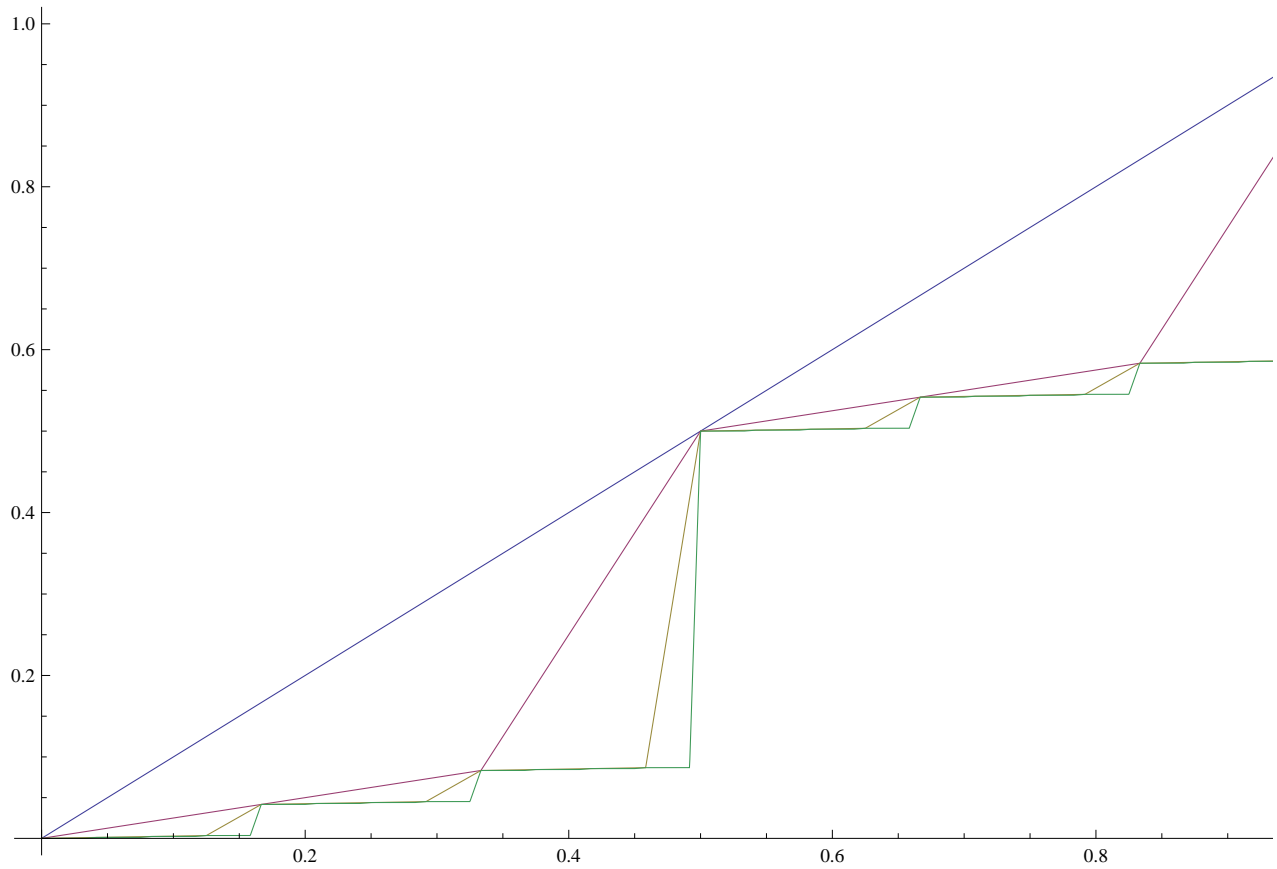


```

λ = N[Sqrt[5] - 1] / 2;
φ[_][x_] := x;
φ[ns___, n_, nn_][x_] := Module[
{
  s = Times[ns, n],
  x0, y0, x1, y1, mu
},
y0 = φ[ns, n][x0 = Floor[s * x] / s];
mu = 1 / s^2;
If[(x - x0) * s * nn < nn - 1,
  (*then*) y0 + mu * (x - x0),
  (*else*) y1 = φ[ns, n][x1 = x0 + 1 / s];
  x0 += (nn - 1) / nn / s;
  y0 += mu * (nn - 1) / nn / s;
  y0 + (y1 - y0) / (x1 - x0) * (x - x0)
]
]
Plot[{φ[2][x], φ[2, 3][x], φ[2, 3, 4][x], φ[2, 3, 4, 5][x]}, {x, 0, 1}]

```



```
Plot[{{ $\phi[3][x]$ ,  $\phi[3, 3][x]$ ,  $\phi[3, 3, 3][x]$ ,  $\phi[3, 3, 3, 3][x]$ }, {x, 0, 1}]
```

