

KnotGraph@*k* gives the modified 3-valent graph with 4 vertices

in a diamond at each crossing of the knot *k*, which is given in modified DT form.

```
KnotGraph@k_MDT := KnotGraph@k = (Join @@ Table[  
  Array[{v, # - 1}  $\mapsto$  {v, Mod[#, 4]} &, 4]  $\cup$   
  {{v, 0}  $\mapsto$  {Ordering[List @@ Abs /@ k][[v]], 1}},  
  {v, 2}  $\mapsto$   
    {Ordering[List @@ Abs /@ k][[Mod[v - 1, Length@k, 1]]], 3}},  
  {v, Length@k}] // Graph);
```