

Pensieve header: January 13: Computing the Jones polynomial, experiments.

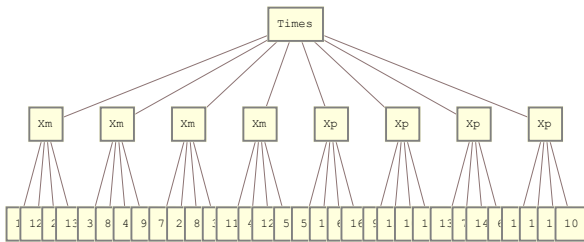
Knot

```
Xm[1, 12, 2, 13] Xm[3, 8, 4, 9] Xm[7, 2, 8, 3] Xm[11, 4, 12, 5]
  Xp[5, 1, 6, 16] Xp[9, 15, 10, 14] Xp[13, 7, 14, 6] Xp[15, 11, 16, 10]
```

Knot // FullForm

```
Times[Xm[1, 12, 2, 13], Xm[3, 8, 4, 9], Xm[7, 2, 8, 3], Xm[11, 4, 12, 5],
  Xp[5, 1, 6, 16], Xp[9, 15, 10, 14], Xp[13, 7, 14, 6], Xp[15, 11, 16, 10]]
```

Knot // TreeForm



Jones[Knot]

```
Jones[Xm[1, 12, 2, 13] Xm[3, 8, 4, 9] Xm[7, 2, 8, 3] Xm[11, 4, 12, 5]
  Xp[5, 1, 6, 16] Xp[9, 15, 10, 14] Xp[13, 7, 14, 6] Xp[15, 11, 16, 10]]
```

Hold[a = 1]

Hold[a = 1] // FullForm

```
Hold[Set[a, 1]]
```

a = RandomInteger[5]

3

{a, a, a}

```
{3, 3, 3}
```

b := RandomInteger[5]

{b, b, b}

```
{2, 4, 5}
```

CompoundExpression[a = 1, a = 2, a + a]

4

b = 1; b = 2; b + b + b

6

```
(a = 1
  a = 2
  a)
```

Set::write : Tag Times in 1 × 2 is Protected. >>

4

t1

t1