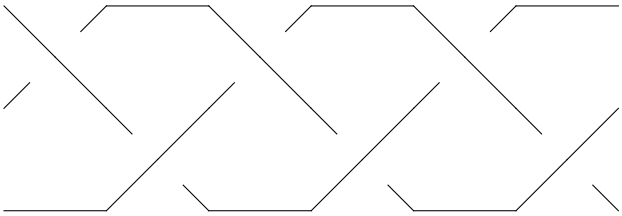
In[1]:=
```
<< KnotTheory`
```

```
Loading KnotTheory` version of April 20, 2009, 14:18:34.482.
Read more at http://katlas.org/wiki/KnotTheory.
```

In[2]:=
```
BraidPlot[B = BR[3, {1, -2, 1, -2, 1, -2}]]
```

Out[2]=



In[3]:=
```
Jones[B][q]
```

Out[3]=
$$4 - \frac{1}{q^3} + \frac{3}{q^2} - \frac{2}{q} - 2\,q + 3\,q^2 - q^3$$

In[4]:=
```
MultivariableAlexander[B][t]
```

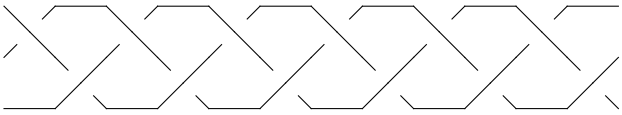
KnotTheory::credits :

The multivariable Alexander program "MVA2" was written by Jana Archibald at the University of Toronto in 2007–2008.

Out[4]=
$$\frac{(-1 + t[1])\,(-1 + t[2])\,(-1 + t[3])}{\sqrt{t[1]}\,\sqrt{t[2]}\,\sqrt{t[3]}}$$

In[5]:=
```
BraidPlot[B2 = BR[3, {1, -2, 1, -2, 1, -2, 1, -2, 1, -2, 1, -2}]]
```

Out[5]=



In[6]:=
```
Jones[B2][q]
```

Out[6]=
$$52 + \frac{1}{q^6} - \frac{6}{q^5} + \frac{15}{q^4} - \frac{26}{q^3} + \frac{39}{q^2} - \frac{47}{q} - 47\,q + 39\,q^2 - 26\,q^3 + 15\,q^4 - 6\,q^5 + q^6$$

In[7]:=
```
MultivariableAlexander[B2][t]
```

Out[7]=
$$-\Big((-1 + t[1])\,(-1 + t[2])\,(-1 + t[3])\,\big(1 - t[1] - t[2] + t[1]\,t[2] - t[3] + t[1]\,t[3] + t[2]\,t[3] - 6\,t[1]\,t[2]\,t[3] + t[1]^2\,t[2]\,t[3] + t[1]\,t[2]^2\,t[3] - t[1]^2\,t[2]^2\,t[3] + t[1]\,t[2]\,t[3]^2 - t[1]^2\,t[2]\,t[3]^2 - t[1]\,t[2]^2\,t[3]^2 + t[1]^2\,t[2]^2\,t[3]^2\big)\Big) \Big/ \big(t[1]^{3/2}\,t[2]^{3/2}\,t[3]^{3/2}\big)$$