https://github.com/t-o-k/Maxima-bezier/bezier curve 3d.wxmx

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```
load("draw")$
(%i1)
      load("bezier")$
(%i2)
      points x: matrix([ +0, +2, +6, +5 ])$
(%i3)
(%i4)
      points_y: matrix([ +2, -1, +6, +0 ])$
       points z: matrix([ +1, -3, +2, +0 ])$
(%i5)
       define(curve x(s), bezier function 1a(points x, s))$
(%i6)
       define(curve y(s), bezier function 1a(points y, s))$
(%i7)
      define(curve z(s), bezier function 1a(points z, s))$
(%i8)
(%i9) expand(curve x(s));
(\%09) -7s^3 +6s^2 +6s
(%i10) expand(curve y(s));
(\%010) -23 s^3 +30 s^2 -9 s+2
(%i11) expand(curve z(s));
(\%011) -16s^3 + 27s^2 - 12s + 1
```

```
(%i12) wxplot3d(
              curve_x(s),
              curve_y(s),
              curve_z(s)
           ],
           [s, 0, 1],
           [t, 0, 1]
        );
                                                   Parametric function
              1
             0.6
             0.4
(%t12)
             0.2
              0
             -0.2
             -0.4
                                                 1.5 2
             -0.6
```