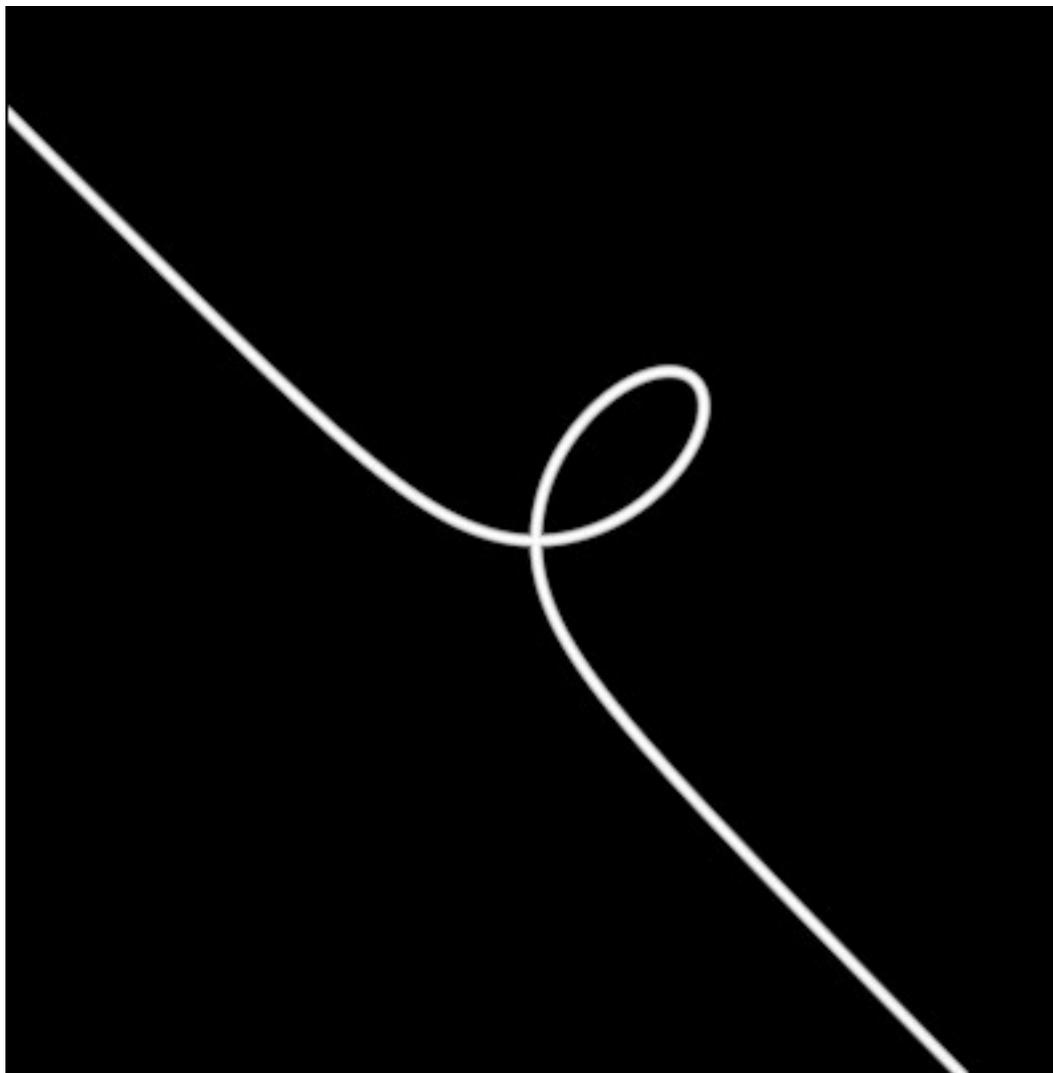
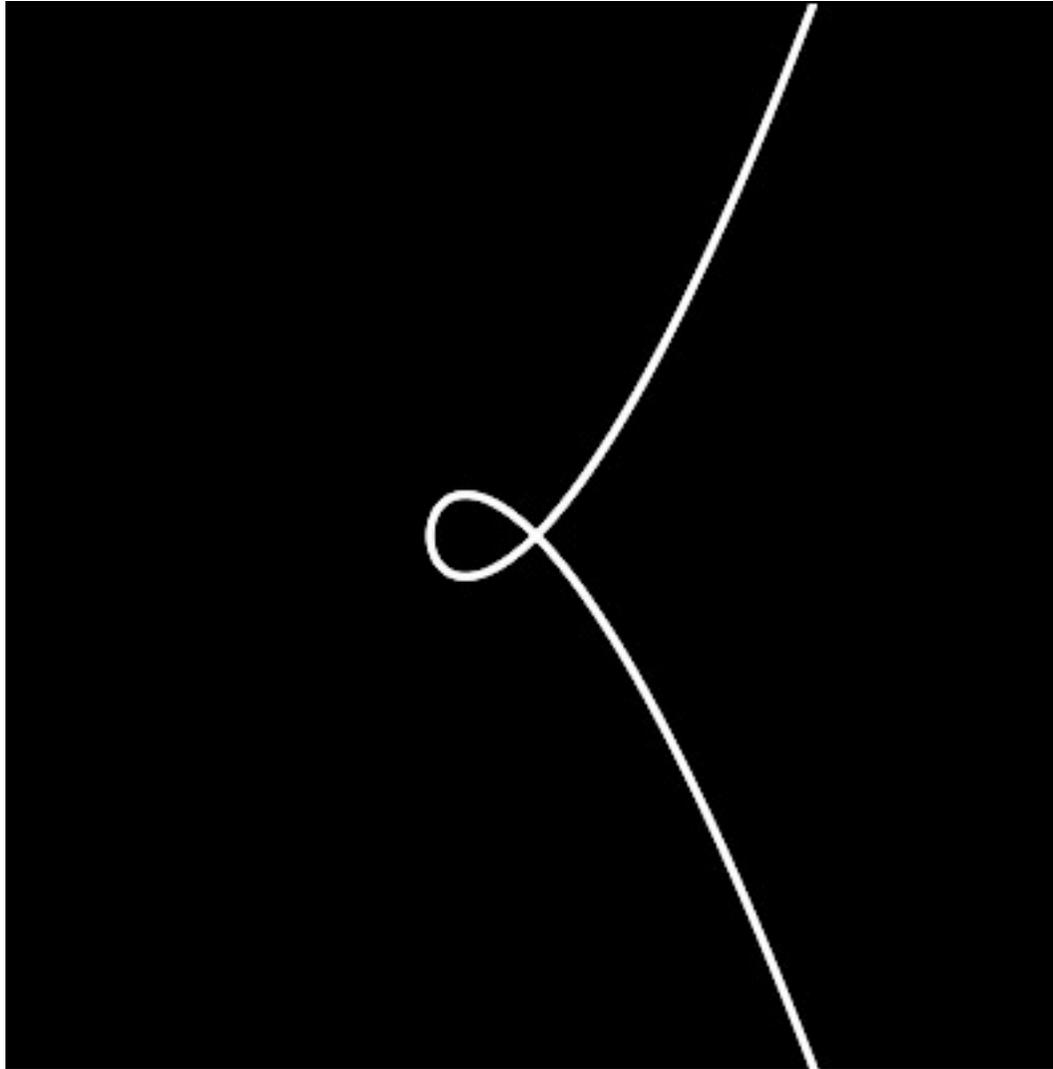


The Folium of Descartes



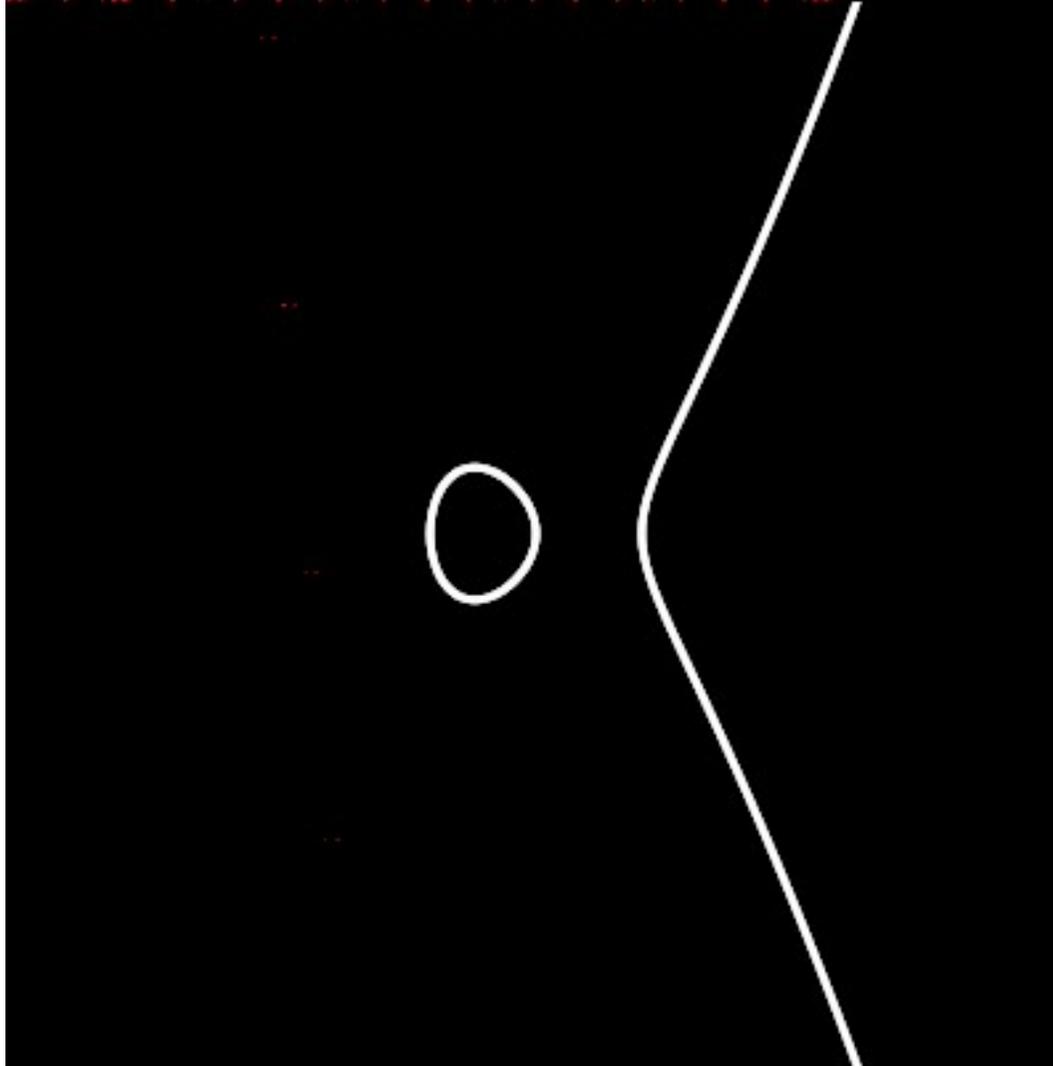
$$x^3 + y^3 - 3xy = 0$$

The Newton Knot



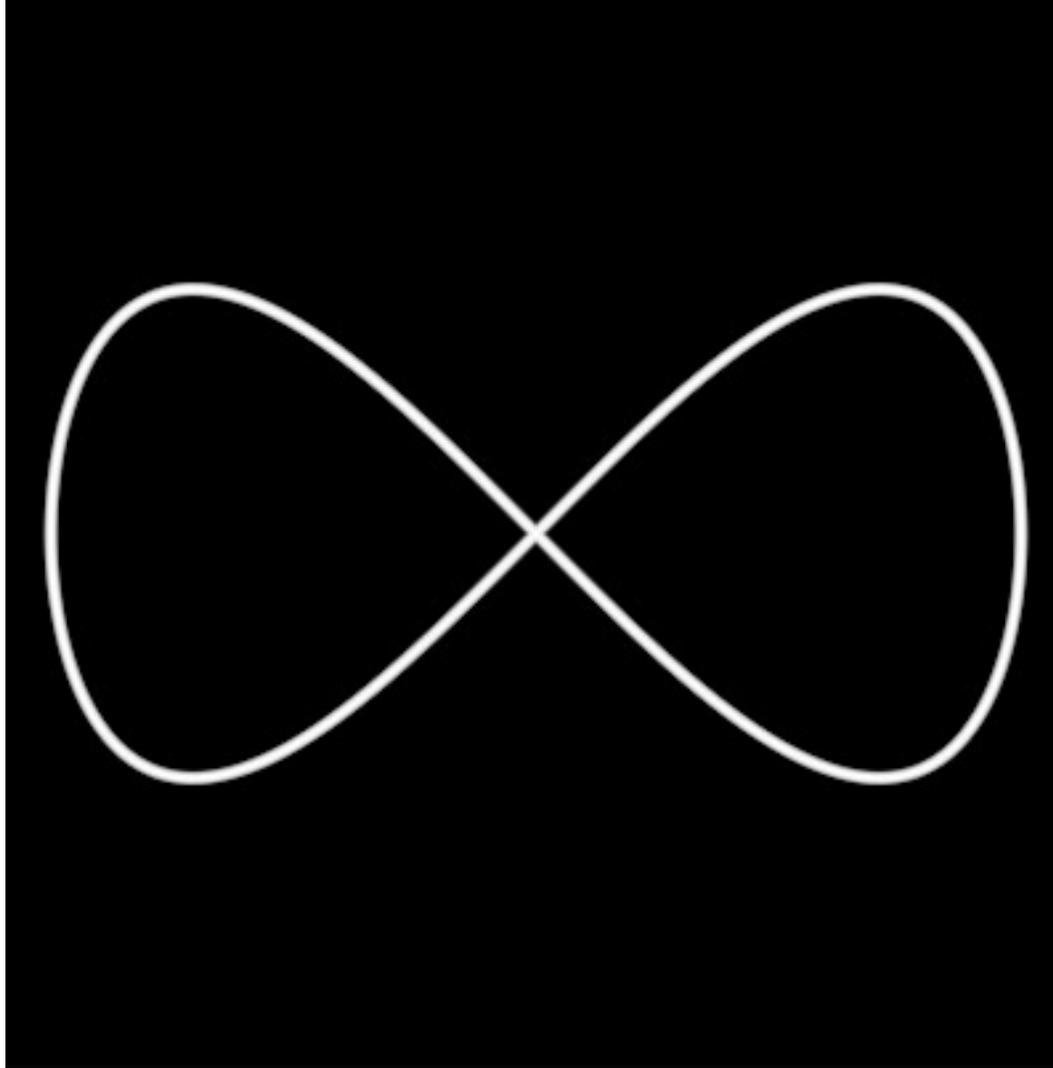
$$y^2 - x^3 - x^2 = 0$$

An elliptic curve



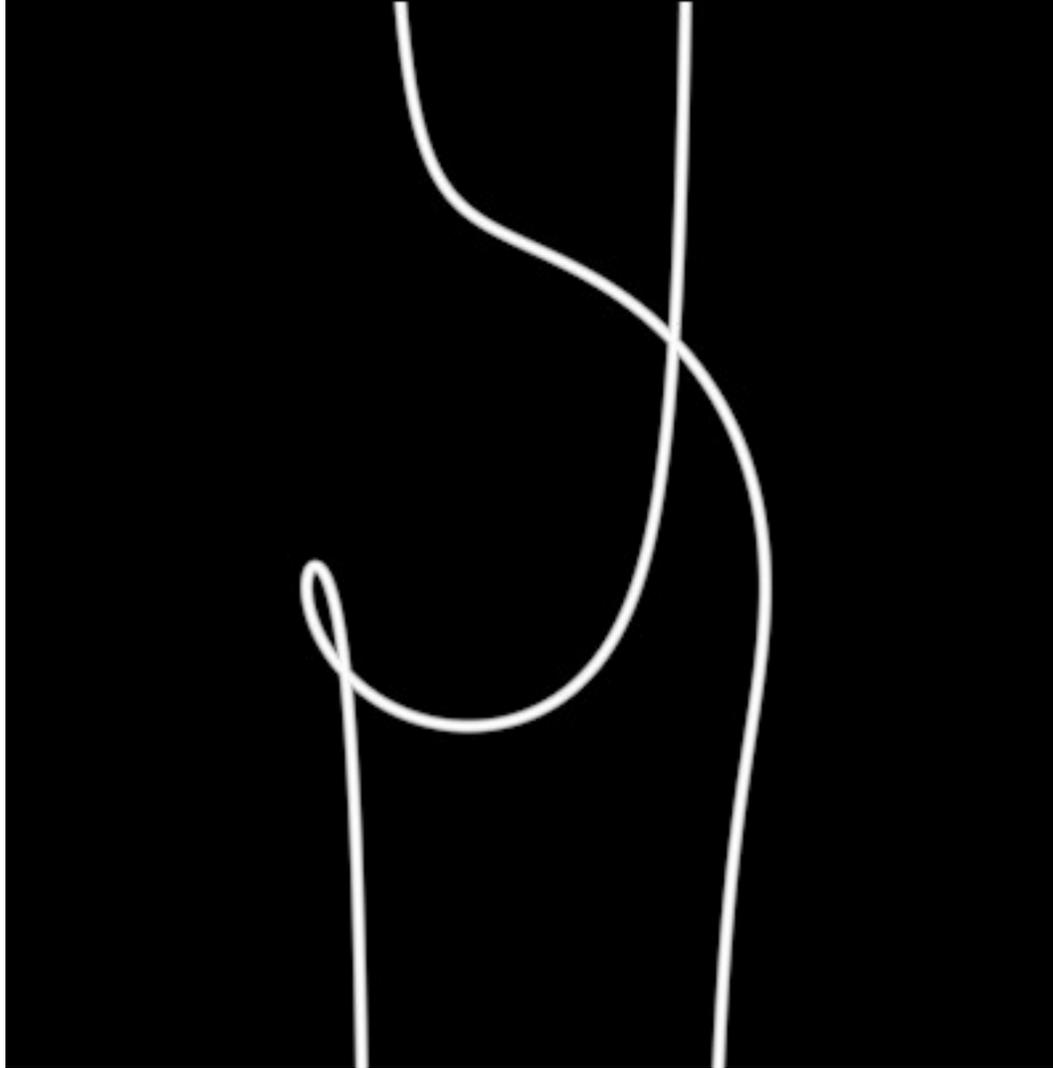
$$y^2 - x(x + 1)(x - 1) = 0$$

The Figure eight curve



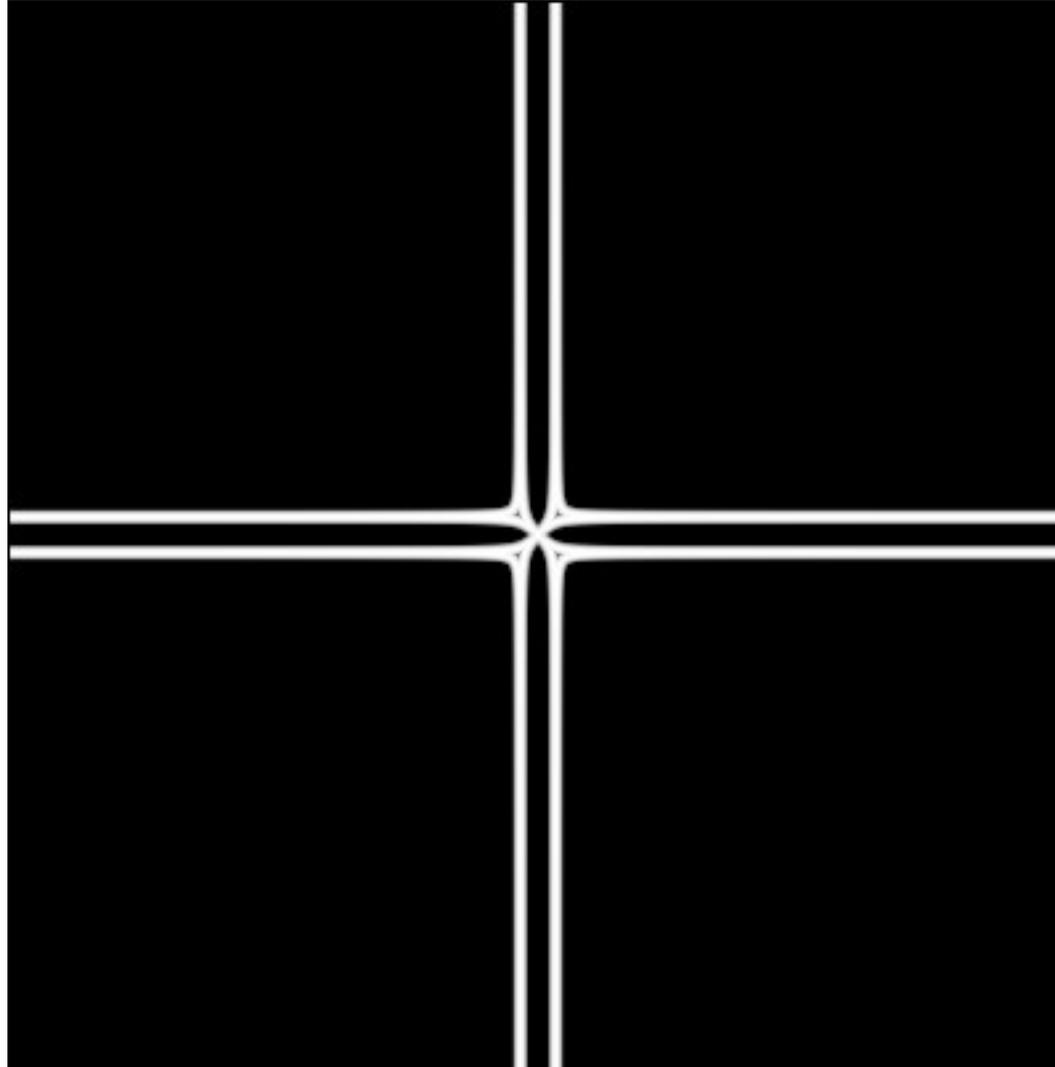
$$x^4 - 21(x^2 - y^2) = 0$$

Durer's shell curve



$$(x^2 + xy + 3x - 169)^2 - (169 - x^2)(x - y + 3)^2 = 0$$

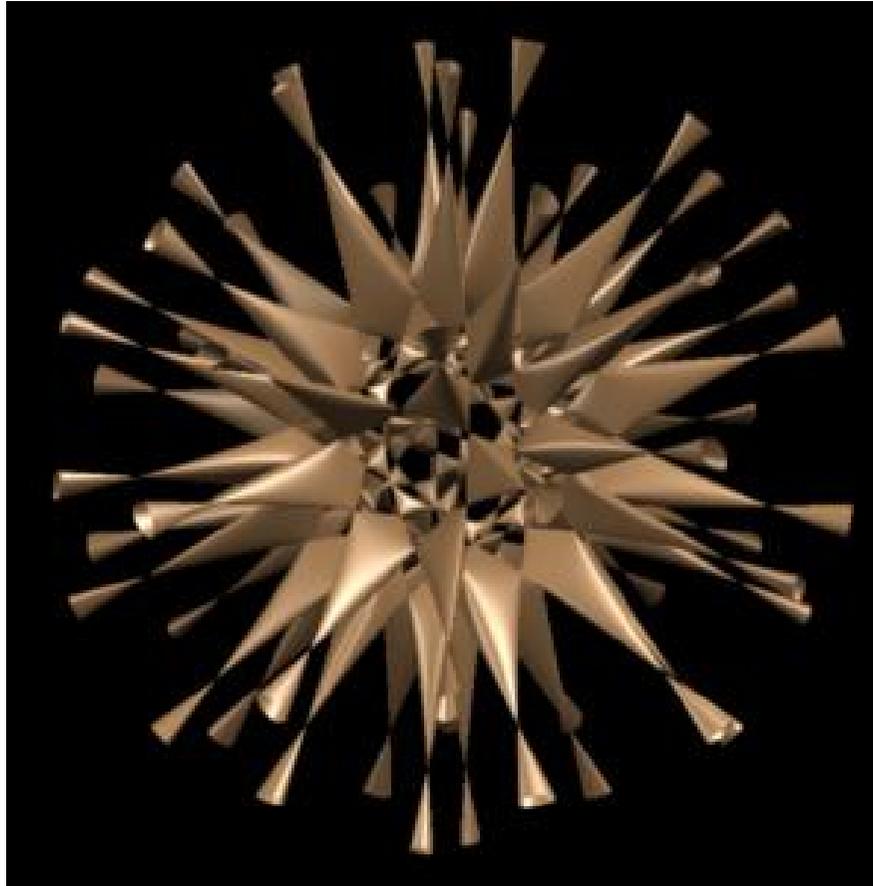
A rather complicated curve ...



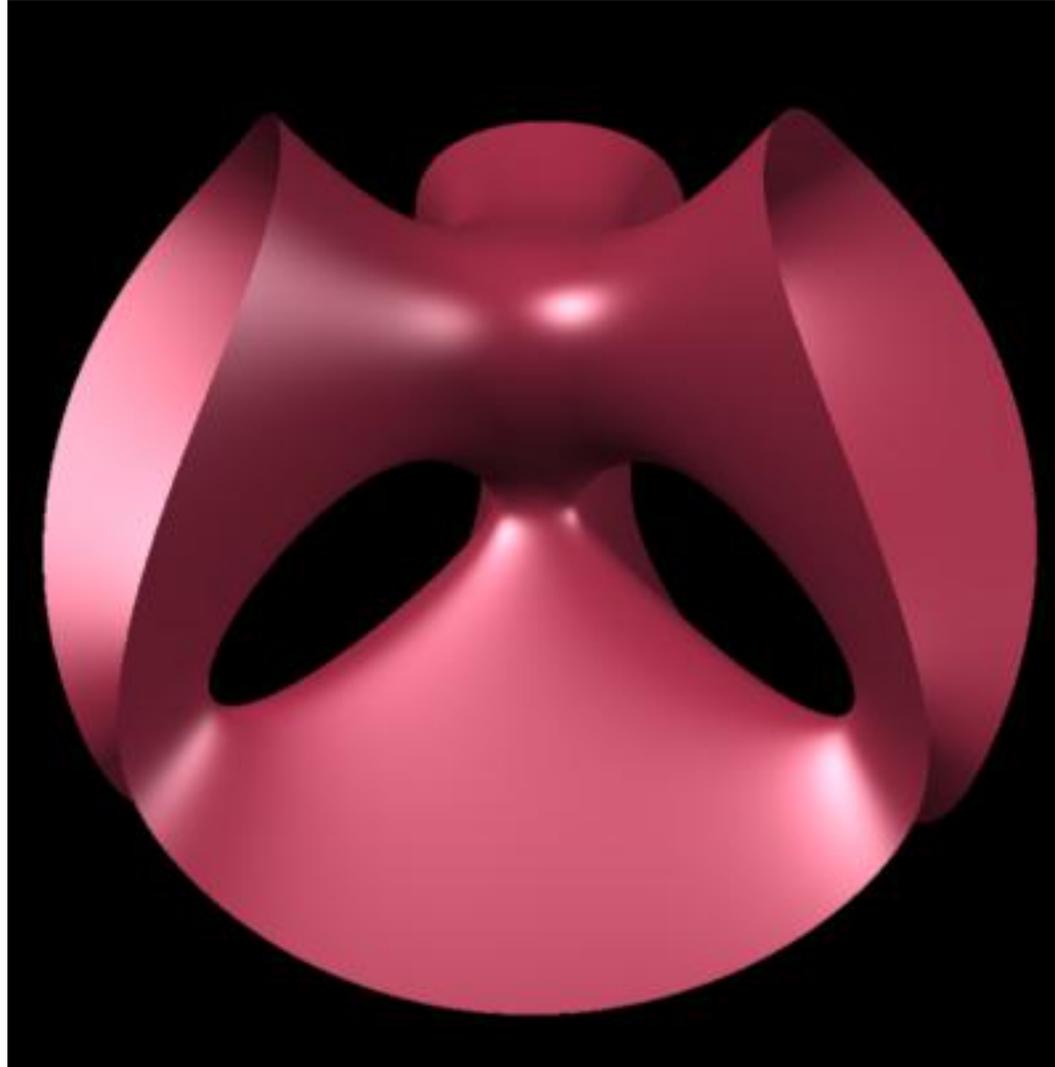
... with this equation

$$\begin{aligned} &-(4(1+x+y)(y+x+xy)xy - (y+x+xy)^3 \\ &\quad -4x^2y^2)(16(y+x+xy)^5(1+x+y)^2x^2 \\ &\quad y^2 + 64(1+x+y)(y+x+xy)x^5y^5 \\ &\quad -80(y+x+xy)^4(1+x+y)x^3y^3 \\ &\quad -8(y+x+xy)^7(1+x+y)xy - 64x^6y^6 \\ &\quad +80(y+x+xy)^3x^4y^4 \\ &\quad +20(y+x+xy)^6x^2y^2 + (y+x+xy)^9) = 0 \end{aligned}$$

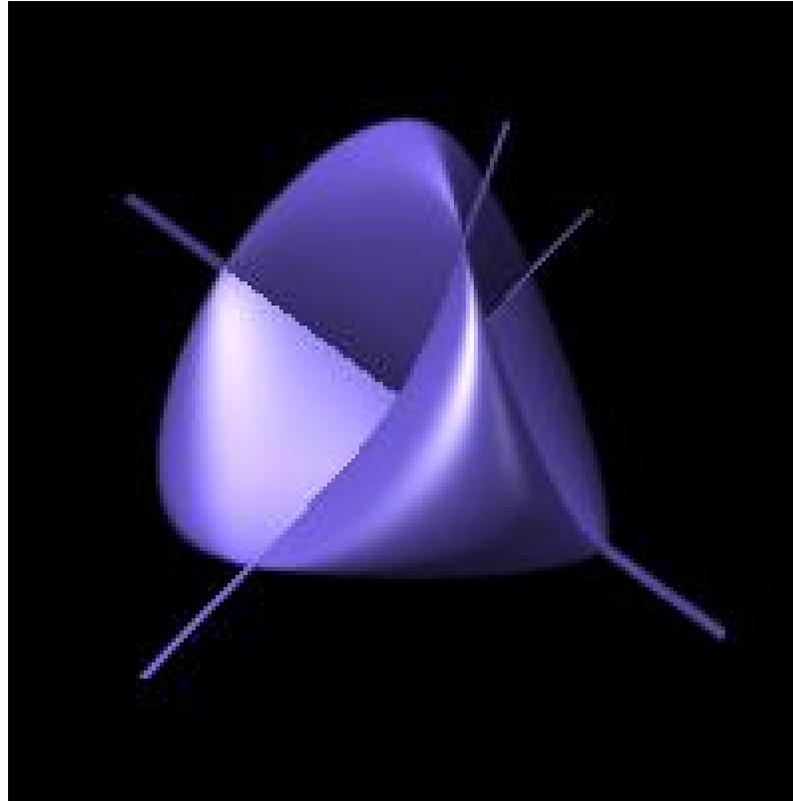
The Barth sextic: a degree 6 surface



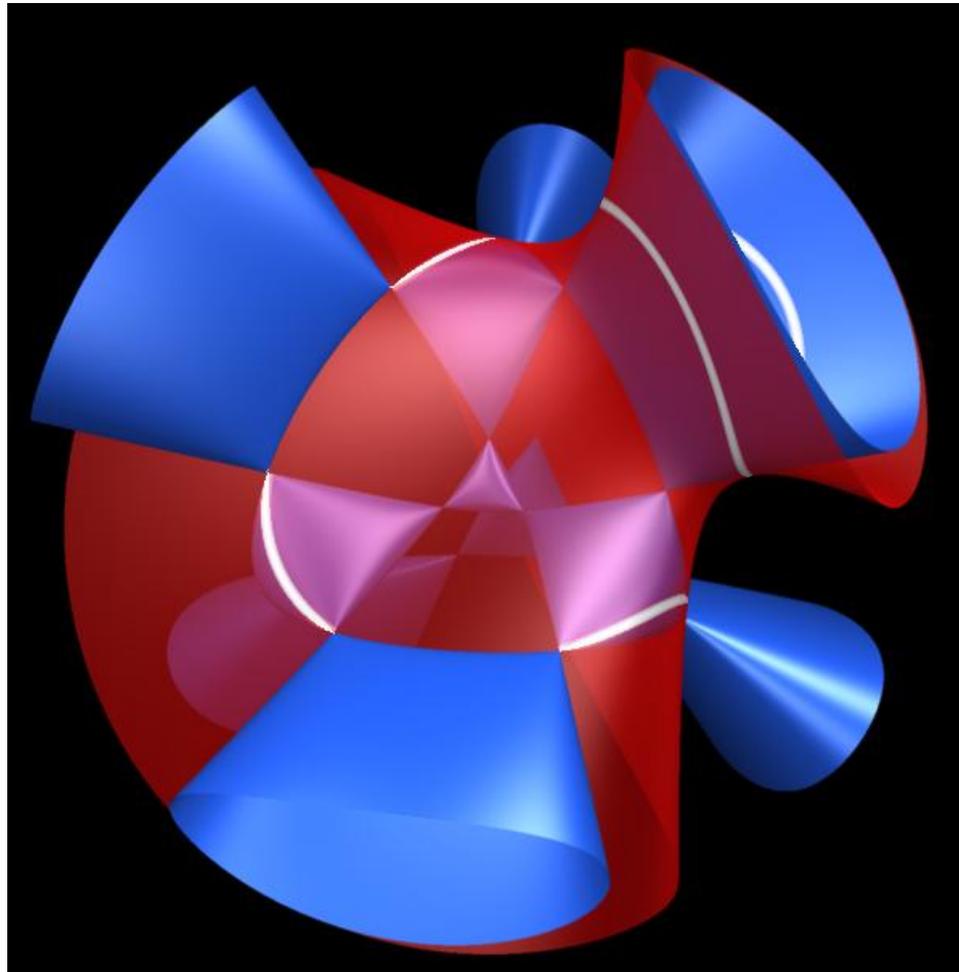
The Clebsch diagonal surface



The Steiner roman surface



The intersection of two kummer surfaces



The 16 nodal quartic surface

