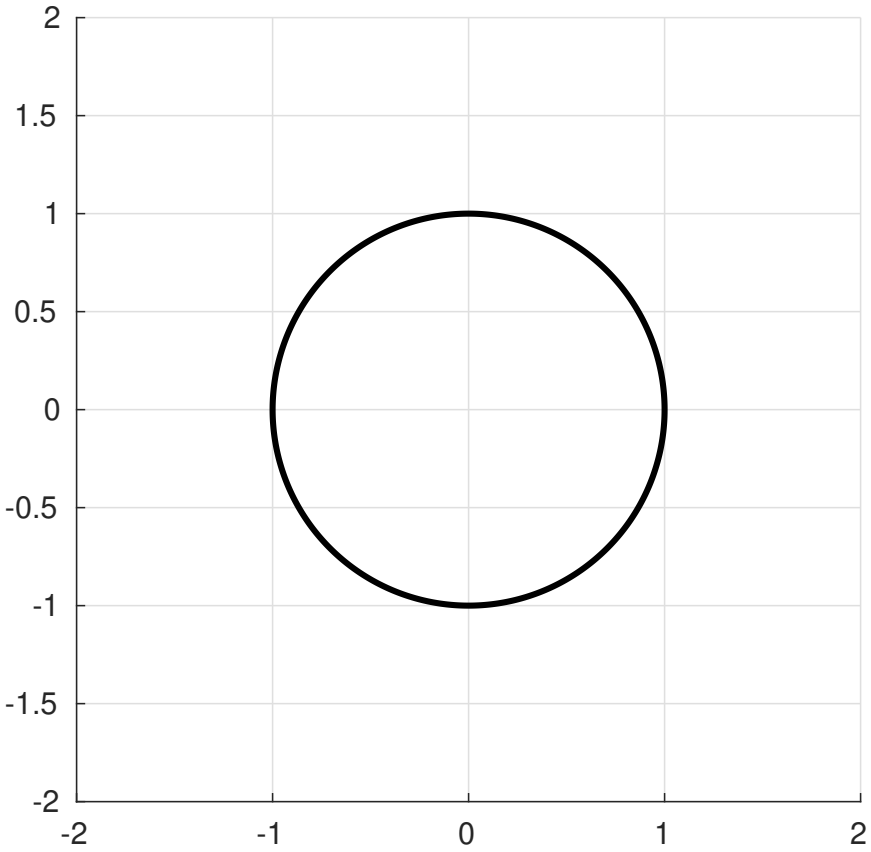
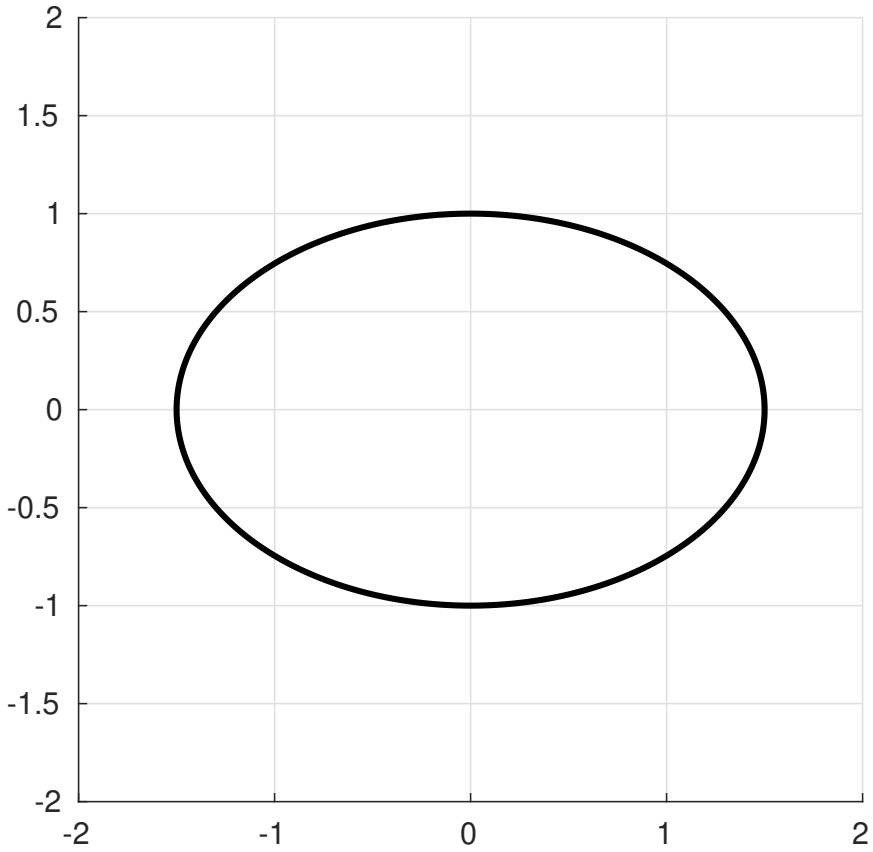
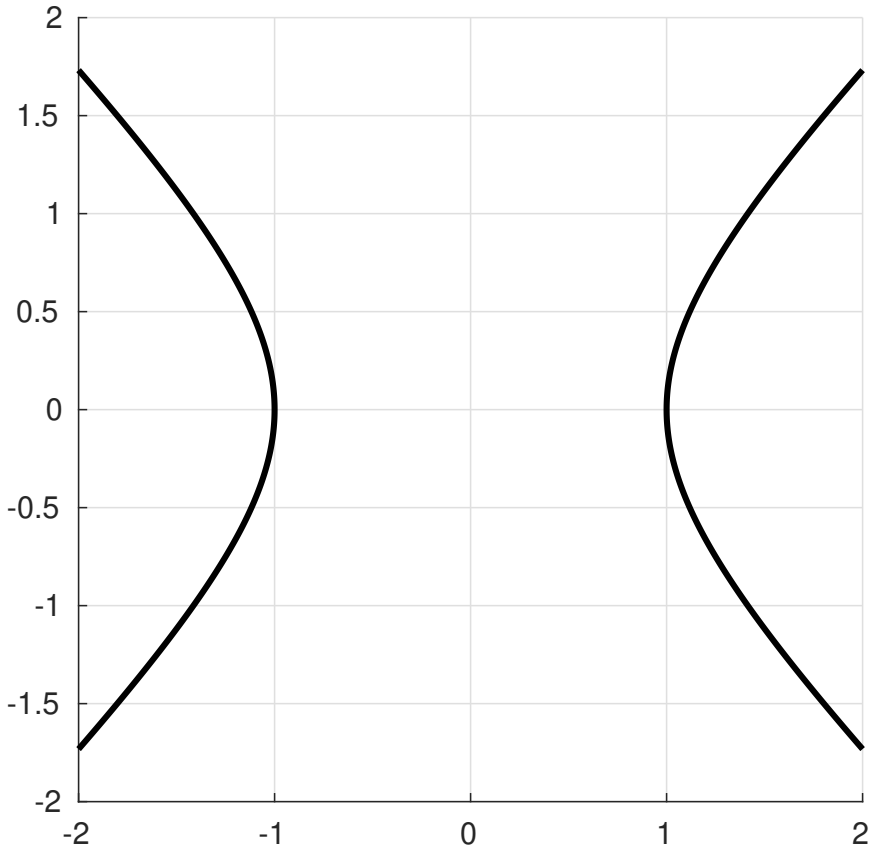


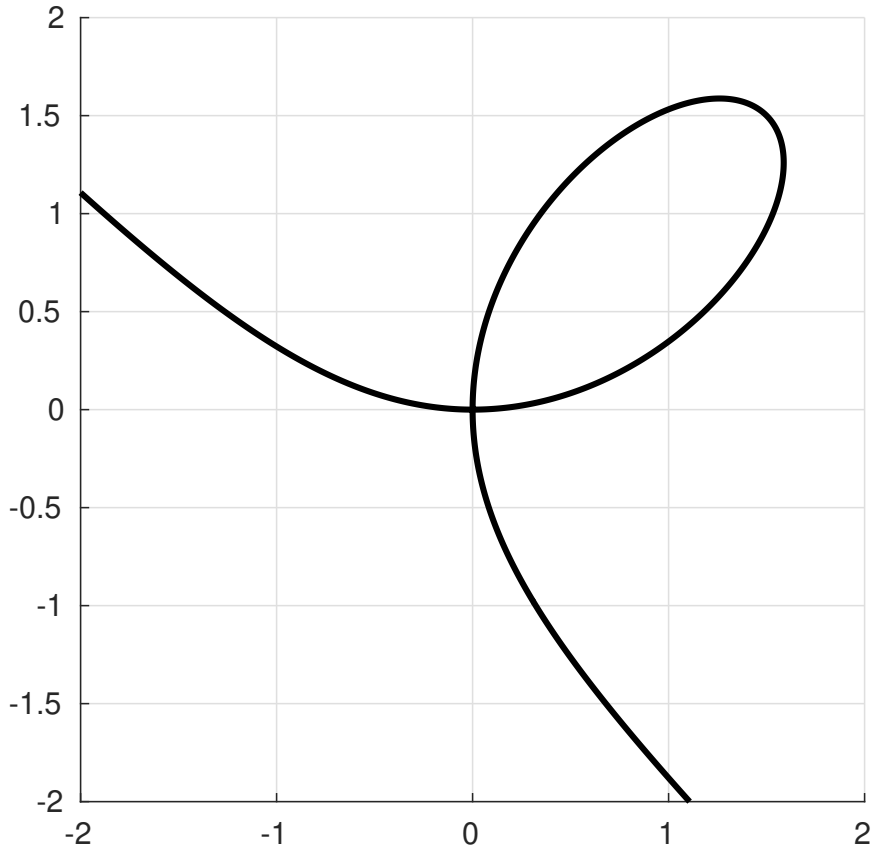
$x^2 + y^2 = 1$, Circle



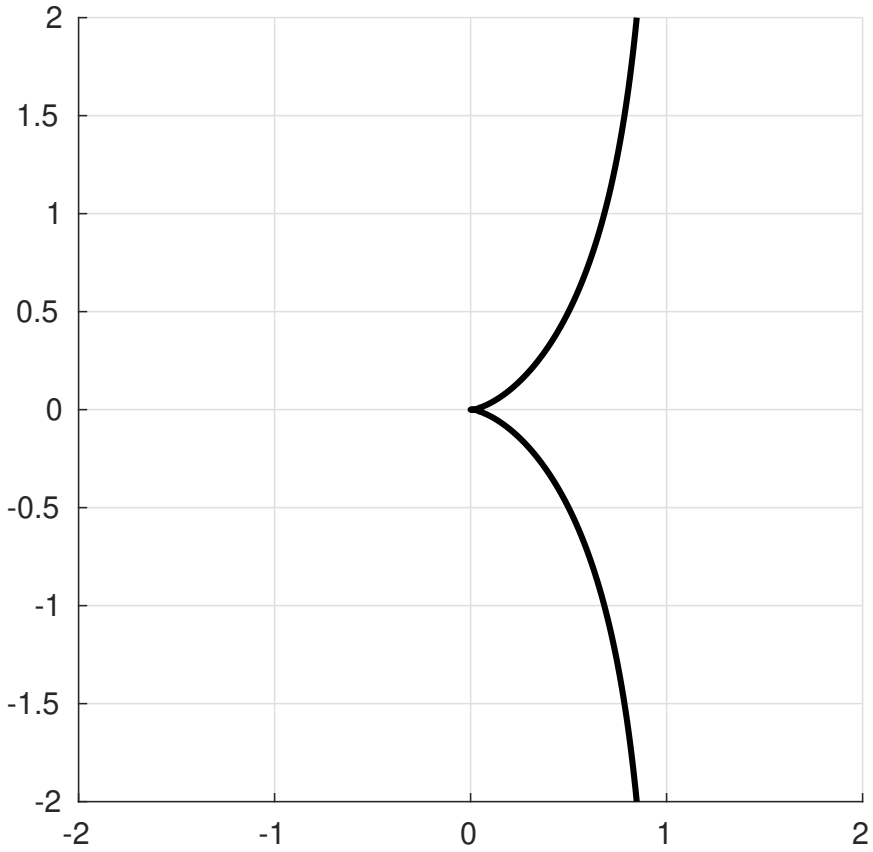
$(x/a)x^2 + (y/b)^2 = 1$, Ellipse



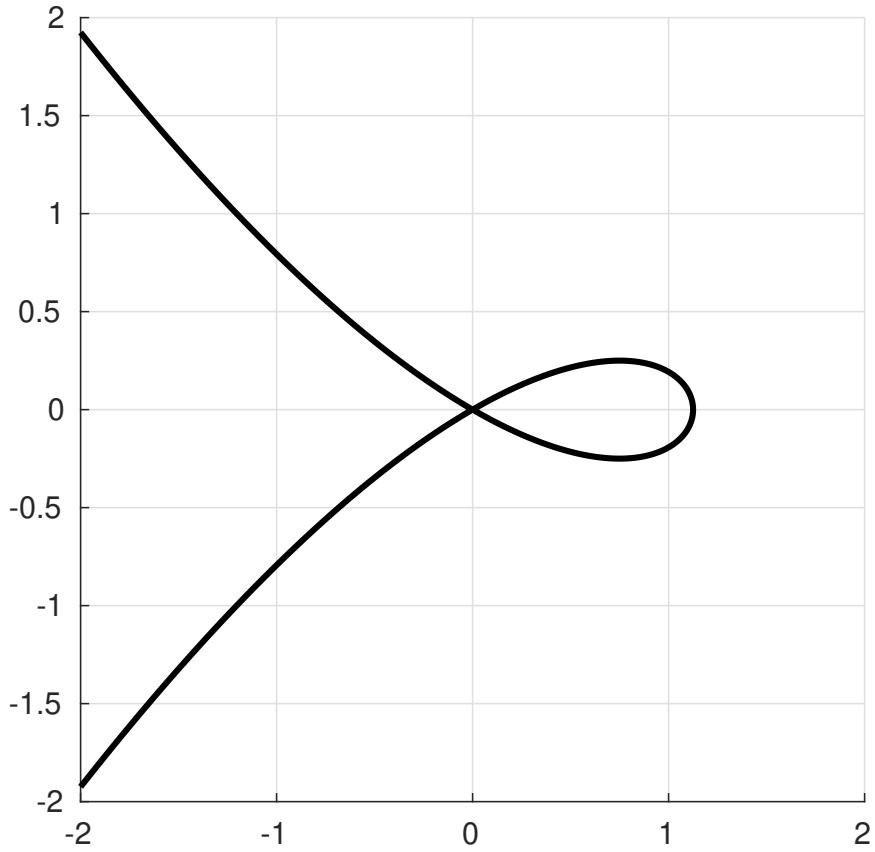
$x^2 - y^2 = 1$, Hyperbola



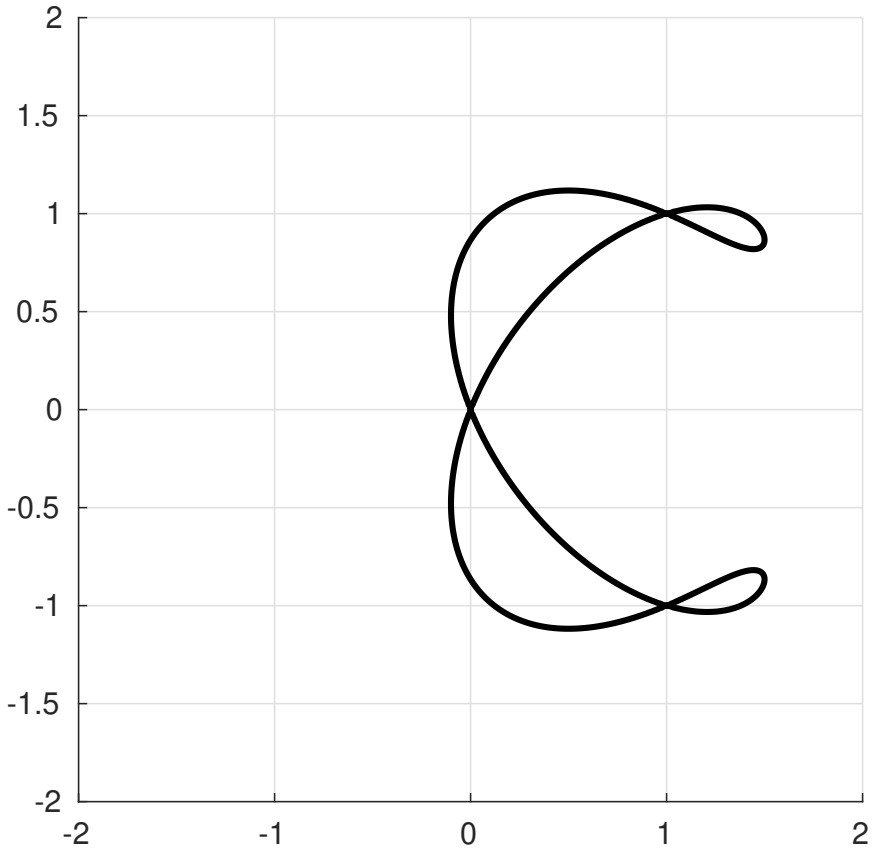
$x^3 + y^3 - 3xy = 0$, Folium of Descartes



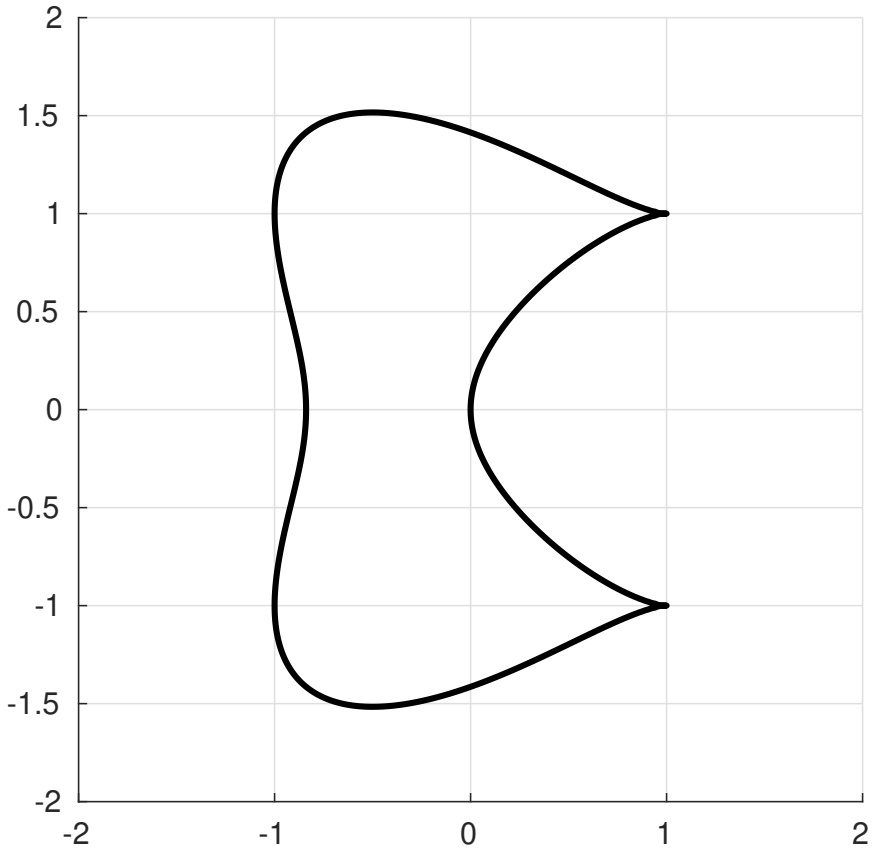
$(x-1)(x^2+y^2)+x^2=0$, Conchoids of de la Sluze



$x^3 - (9/8)(x^2 - 3y^2)$, Tchirnhausen Cubic



$(y^2 - x^2)(x - 1)(2x - 3) = 4(x^2 + y^2 - 2x)^2$, Ammpersand curve



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