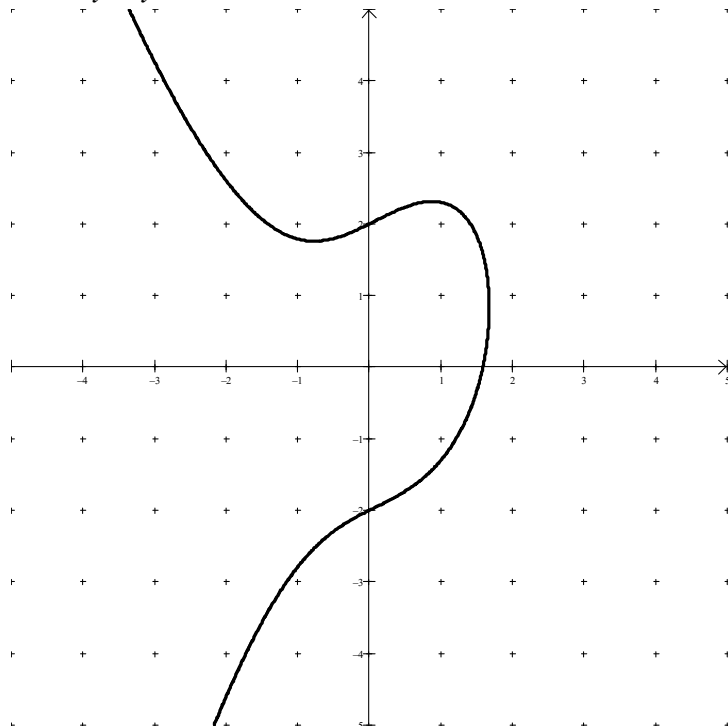


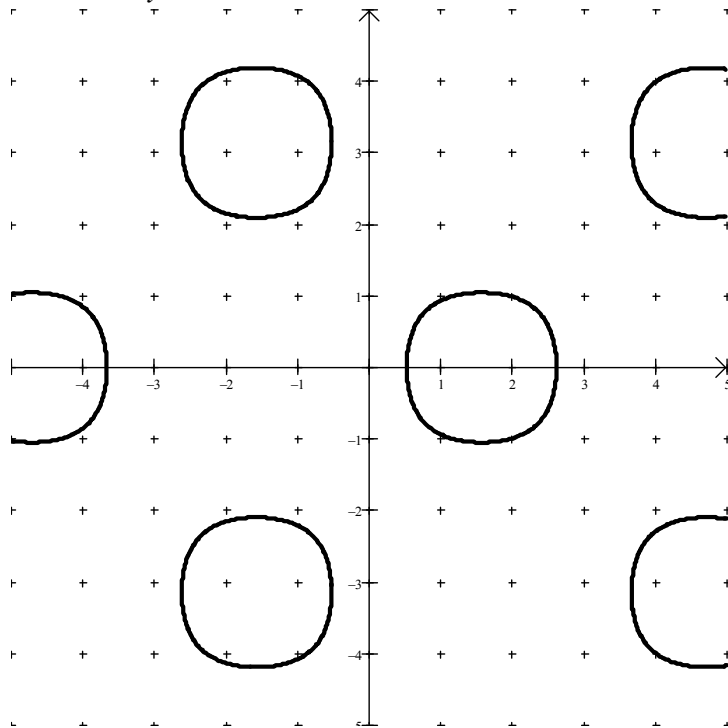
**Implicit Differentiation**

For each function  $y$ , defined implicitly in terms of  $x$ , find  $\frac{dy}{dx}$ :

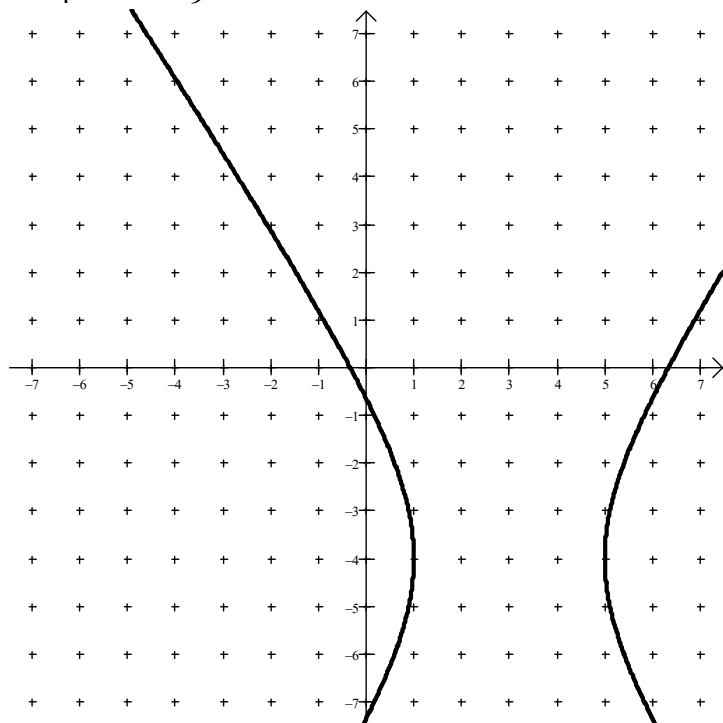
$$x^3 - xy + y^2 = 4$$



$$2 \sin x \cos y = 1$$



$$\frac{(x-3)^2}{4} - \frac{(y+4)^2}{9} = 1$$



Folium of Descartes

$$x^3 + y^3 - 6xy = 0$$

