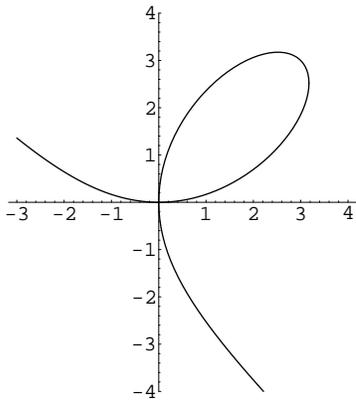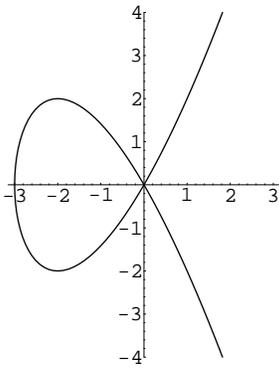1. $x^3 + y^3 = 6xy$

2. $y^2 = x^3 + 3x^2$

3. $5x^2 - 6xy + 5y^2 = 16$