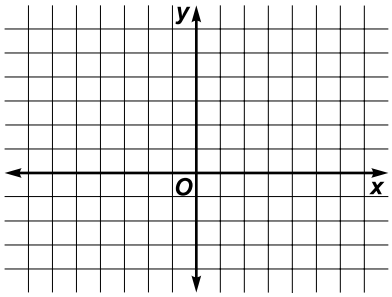
NAME _____ DATE _____ PERIOD _____

Practice

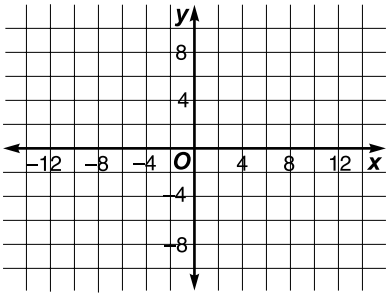
Rectangular and Parametric Forms of Conic Sections

Identify the conic section represented by each equation. Then write the equation in standard form and graph the equation.

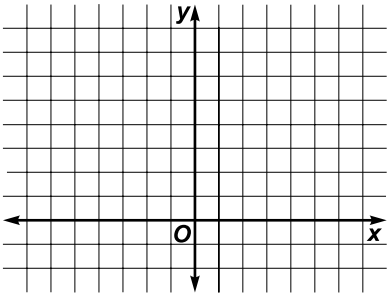
1. $x^2 - 4y + 4 = 0$



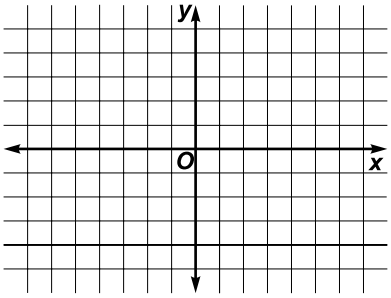
2. $x^2 + y^2 - 6x - 6y - 18 = 0$



3. $4x^2 - y^2 - 8x + 6y = 9$

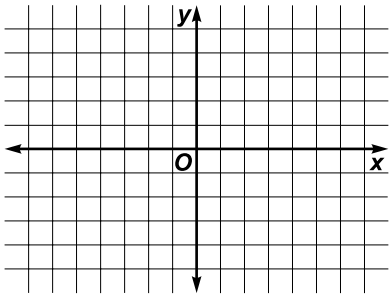
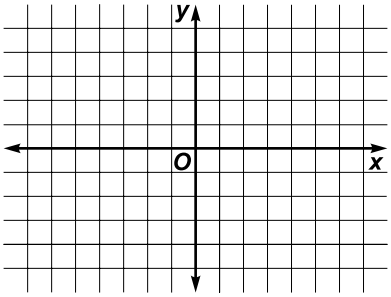


4. $9x^2 + 5y^2 + 18x = 36$



Find the rectangular equation of the curve whose parametric equations are given. Then graph the equation using arrows to indicate orientation.

5. $x = 3 \cos t, y = 3 \sin t, 0 \leq t \leq 2\pi$



6. $x = -4 \cos t, y = 5 \sin t, 0 \leq t \leq 2\pi$