MAT 171 Homework Section 2.8: Circles

Name: _____

Write the standard form of the equation of the circle with the given center and radius

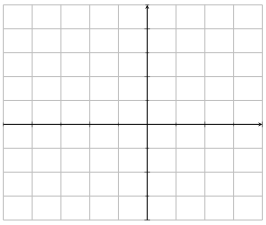
1) center at $(0, 0)$ and $r = 7$

2) center at $(-1, 4)$ and $r = 2$

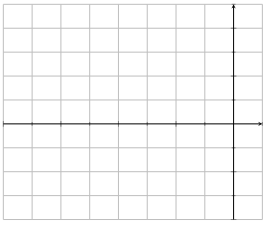
3) center at $(-3, -1)$ and $r = \sqrt[2]{3}$

Given the center and radius of the circle describe by the equation and graph each equation.

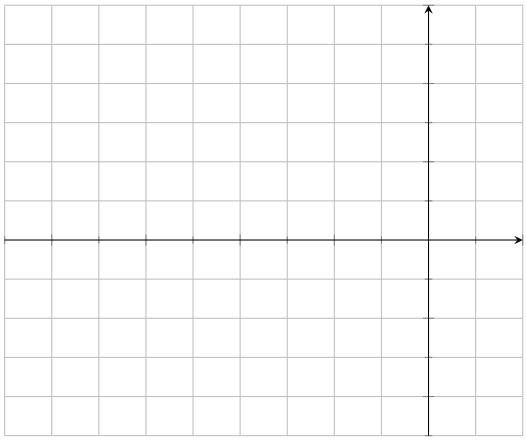
4) $x^2 + y^2 = 16$



5) $(x + 3)^2 + (y - 2)^2 = 4$



6) $x^2 + y^2 + 8x - 2y - 8 = 0$



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