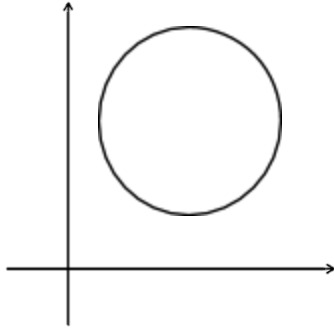1. Write the standard equation of the circle with center $(-4,\ 0)$ and radius 7.

2. Write the standard equation of the circle with center $(-1,\ -3)$ and radius 6.

3. The point $(1,\ 2)$ is on a circle whose center is $(5,\ -1)$. Write the standard equation of the circle.

4. Give the center and radius of the circle whose equation is $(x-5)^2 + (y-1)^2 = 25$

5. Give the center and radius of the circle whose equation is $(x+2)^2 + (y-3)^2 = 36$

6. Give the center and radius of the circle whose equation is $\left(x-\frac{1}{2}\right)^2 + \left(y+\frac{3}{4}\right)^2 = \frac{1}{4}$

7. Graph the equation; $(x+3)^2 + y^2 = 9$