1. Find the intercepts of the equation $y = x^2 - 1$.

2. If $(a, -4)$ is on the graph of the equation $y = x^2 - x$, what is a?

3. Find an equation for the line that is parallel to the line $5x + 4y = -4$; and had x-intercept $= 4$.

4. Find an equation for the line that is perpendicular to the line $y = 8$; containing the point $(7, 9)$.

5. Find an equation for the line that is perpendicular to the line $x - 3y = 7$; containing the point $(5, 3)$.

6. Find the center (h, k) and radius r of the circle $x^2 + y^2 - 10x - 4y + 4 = 0$. Graph the circle.

7. Find the standard form of the equation of the circle that is centered at the origin and contains the point $(-8, 4)$.

8. Find the standard form of the equation of the circle that is shown below.
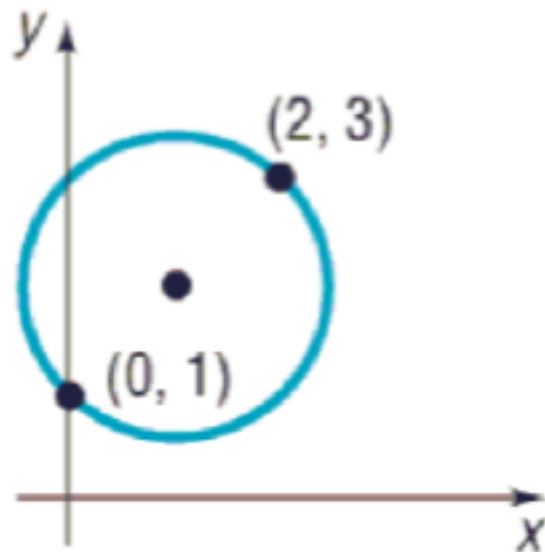
9. Find the standard form of the equation of the circle centered at $(1, -2)$ that is tangent to the x axis.