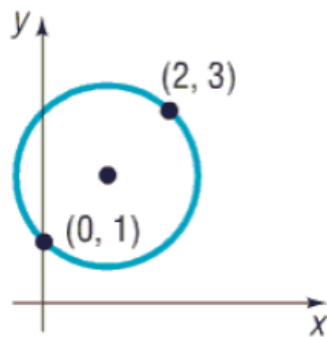


York College, CUNY Math 120 – PreCalculus ~ HW 03

- Find the intercepts of the equation $y = x^2 - 1$.
- If $(a, -4)$ is on the graph of the equation $y = x^2 - x$, what is a ?
- Find an equation for the line that is parallel to the line $5x + 4y = -4$; and had x -intercept = 4.
- Find an equation for the line that is perpendicular to the line $y = 8$; containing the point $(7, 9)$.
- Find an equation for the line that is perpendicular to the line $x - 3y = 7$; containing the point $(5, 3)$.
- Find the center (h, k) and radius r of the circle $x^2 + y^2 - 10x - 4y + 4 = 0$. Graph the circle.
- Find the standard form of the equation of the circle that is centered at the origin and contains the point $(-8, 4)$.
- Find the standard form of the equation of the circle that is shown below.



- Find the standard form of the equation of the circle centered at $(1, -2)$ that is tangent to the x axis.
- What type of symmetry does each graph have? Symmetric with respect to the x -axis, y -axis or origin?

A	B	C	D