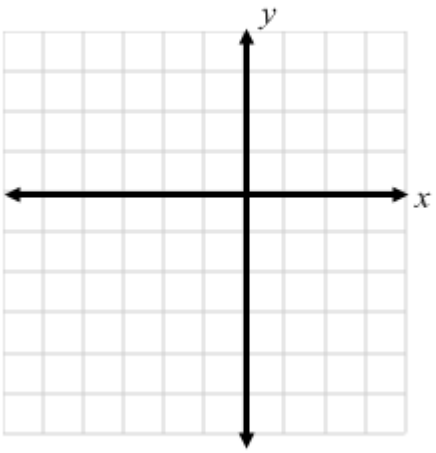
**Name:**_____ **Date:**_____ **Per:**_____

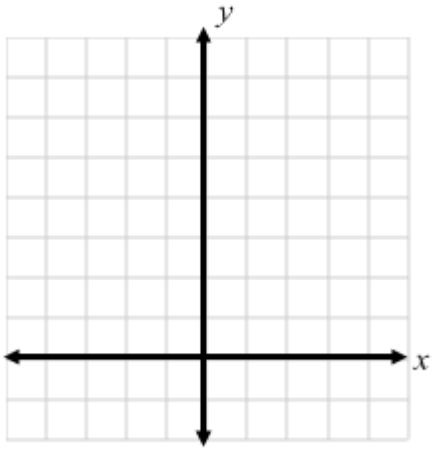
## 10.2: Graph Quadratics in the Form $y = ax^2 + bx + c$
## Practice 5

**Find the axis of symmetry and the vertex. Then graph the parabola by graphing points surrounding the vertex.**

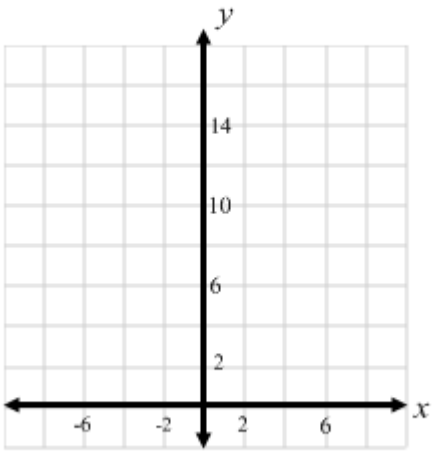
**1.** $y = -4x^2 + 4x + 3$



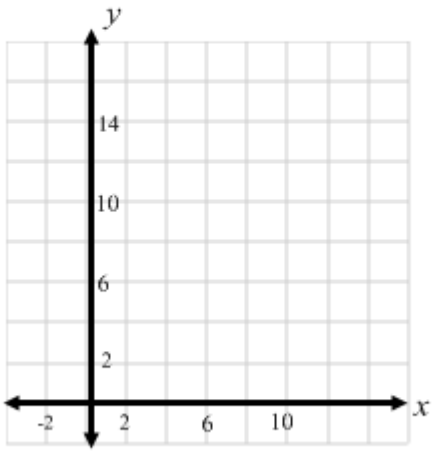

**2.** $y = 7x^2 - 14x + 6$



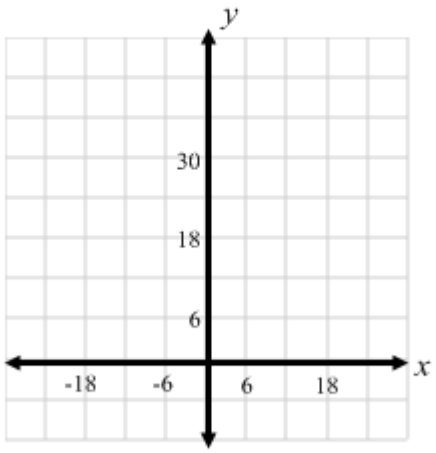

**3.** $y = 6x^2 - 12x + 13$



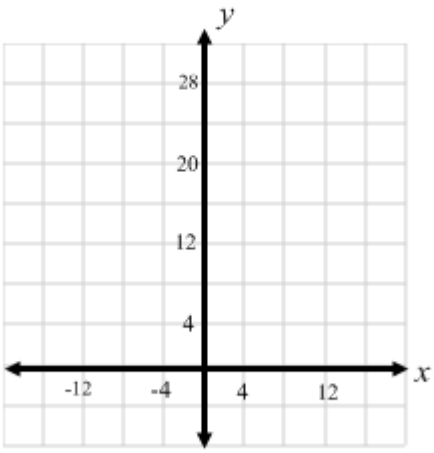

**4.** $y = \frac{1}{4}x^2 - 2x + 10$



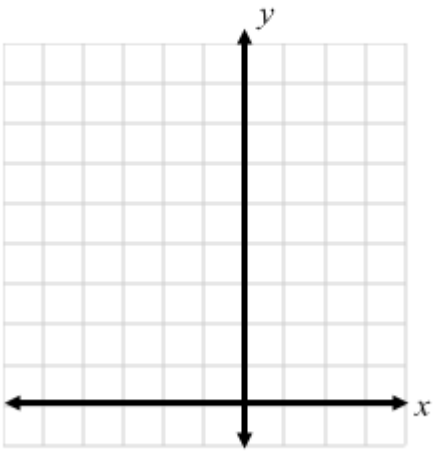
**5.** $y = -\frac{7}{2}x^2 + 21x - 5$



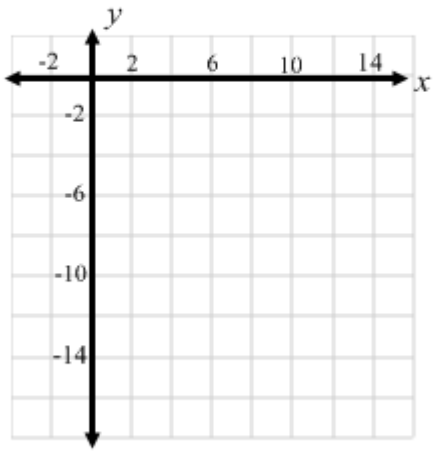

**6.** $y = -3x^2 + 18x - 4$



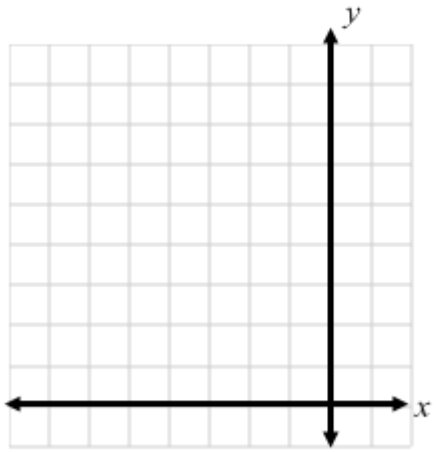

**7.** $y = x^2 + 2x + 5$



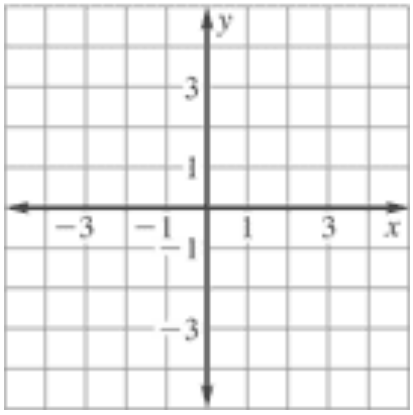

**8.** $y = x^2 - 8x + 1$



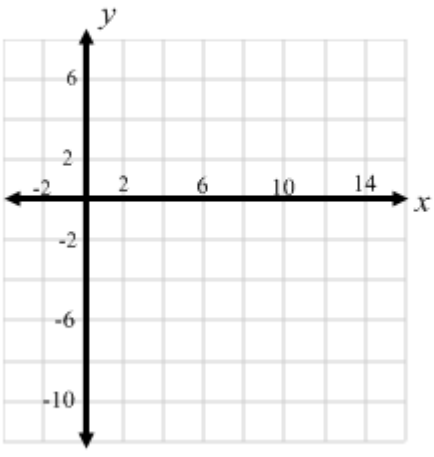
**9.** $y = -x^2 - 4x + 3$




**10.** $y = -2x^2 + 2x + 1$




**11.** $y = x^2 - 8x + 5$




**12.** $y = \frac{1}{4}x^2 + 3x - 1$