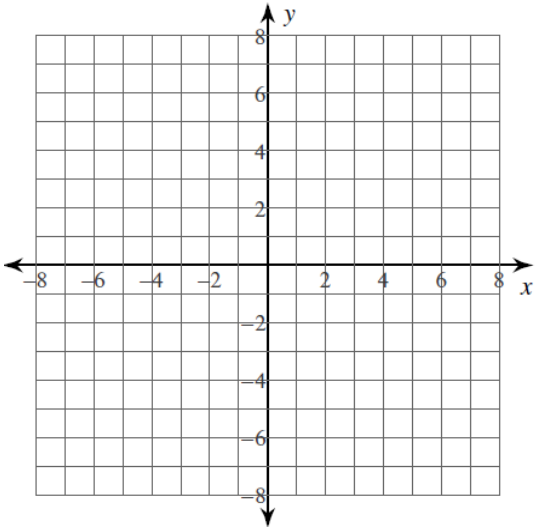
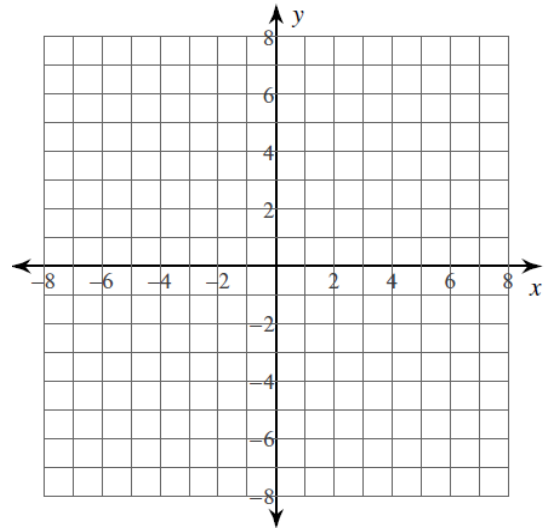


### Graphing Quadratic Equations

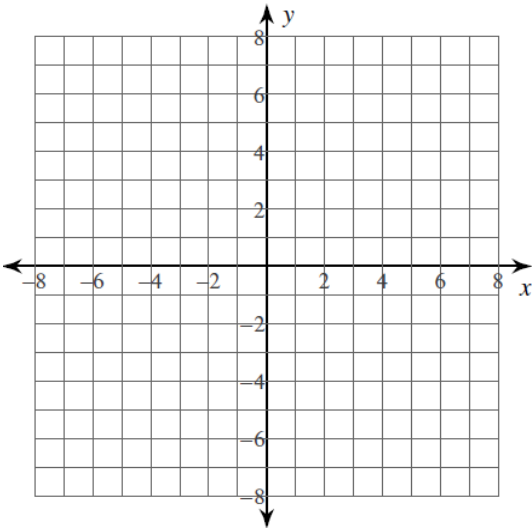
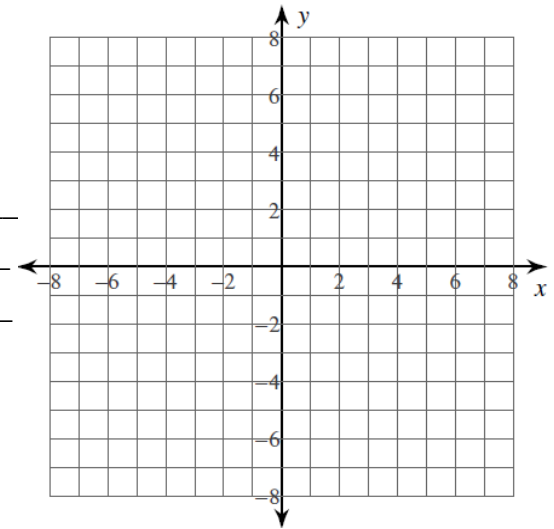
Graph each equation on the same graph.

- $y = x^2$  axis of symmetry \_\_\_\_\_ vertex \_\_\_\_\_  
 1)  $y = 3x^2$  axis of symmetry \_\_\_\_\_ vertex \_\_\_\_\_  
 $y = -3x^2$  axis of symmetry \_\_\_\_\_ vertex \_\_\_\_\_



- $y = x^2$  axis of symmetry \_\_\_\_\_ vertex \_\_\_\_\_  
 2)  $y = x^2 + 4$  axis of symmetry \_\_\_\_\_ vertex \_\_\_\_\_  
 $y = x^2 - 4$  axis of symmetry \_\_\_\_\_ vertex \_\_\_\_\_

- $y = x^2 + 2x + 3$  axis of symmetry \_\_\_\_\_ vertex \_\_\_\_\_  
 3)  $y = x^2 - 2x + 3$  axis of symmetry \_\_\_\_\_ vertex \_\_\_\_\_  
 $y = x^2 + 4x + 9$  axis of symmetry \_\_\_\_\_ vertex \_\_\_\_\_



- $y = x^2 - 6x + 3$  axis of symmetry \_\_\_\_\_ vertex \_\_\_\_\_  
 4)  $y = x^2 - 2x + 1$  axis of symmetry \_\_\_\_\_ vertex \_\_\_\_\_  
 $y = x^2 + 7x - 6$  axis of symmetry \_\_\_\_\_ vertex \_\_\_\_\_