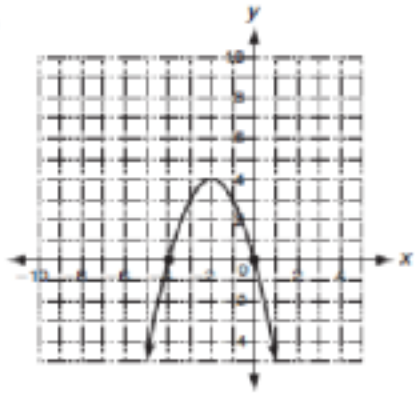


## LESSON

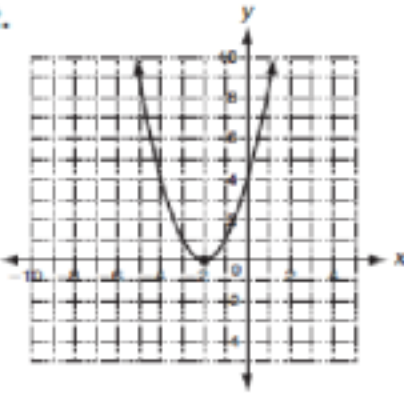
**Practice A****9-2****Characteristics of Quadratic Functions**

Find the zeros of each quadratic function from its graph.

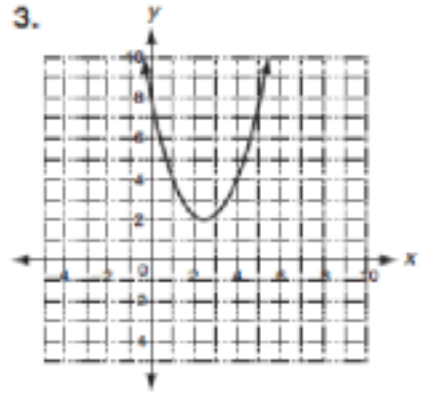
1.



2.

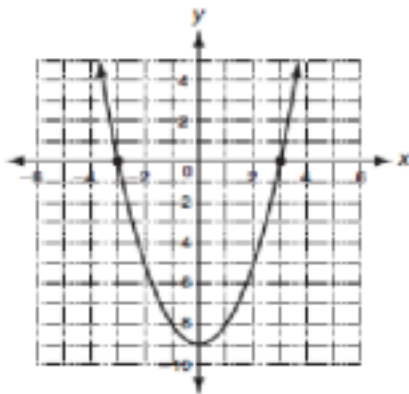


3.

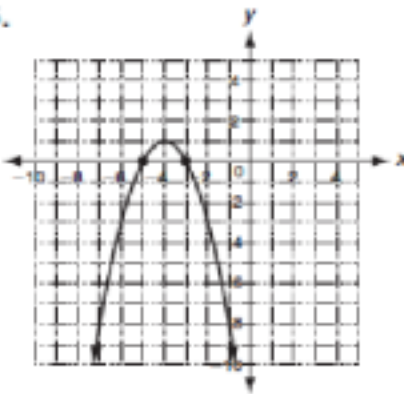


Find the axis of symmetry of each parabola.

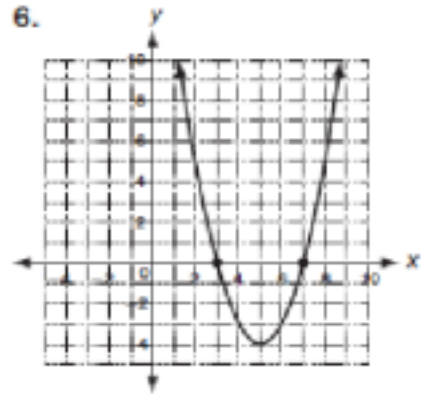
4.



5.



6.



Find the axis of symmetry and the vertex of each quadratic function by completing the following.

7.  $y = x^2 + 8x + 12$

8.  $y = x^2 - 10x + 40$

9.  $y = 2x^2 - 8x - 3$

Find  $a$ : \_\_\_\_\_Find  $a$ : \_\_\_\_\_Find  $a$ : \_\_\_\_\_Find  $b$ : \_\_\_\_\_Find  $b$ : \_\_\_\_\_Find  $b$ : \_\_\_\_\_Find  $-\frac{b}{2a}$ : \_\_\_\_\_Find  $-\frac{b}{2a}$ : \_\_\_\_\_Find  $-\frac{b}{2a}$ : \_\_\_\_\_

→ Axis of symmetry: \_\_\_\_\_

Axis of symmetry: \_\_\_\_\_

Axis of symmetry: \_\_\_\_\_

Vertex: \_\_\_\_\_

Vertex: \_\_\_\_\_

Vertex: \_\_\_\_\_