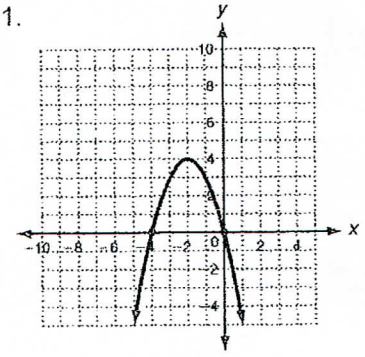
Name _____ Date _____ Class _____

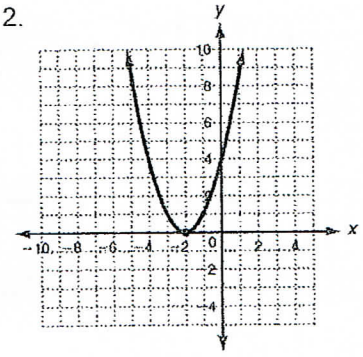
8.2 Practice A

Characteristics of Quadratic Functions

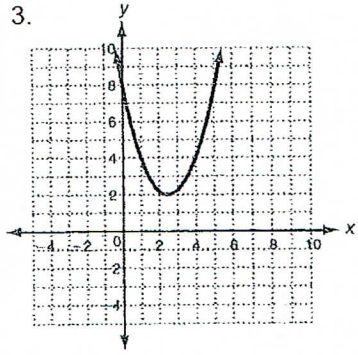
Find the zeros of each quadratic function from its graph. AND AOS

1. 

_____

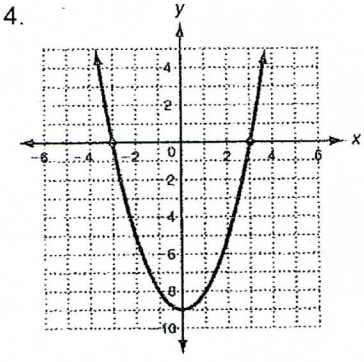
2. 

_____

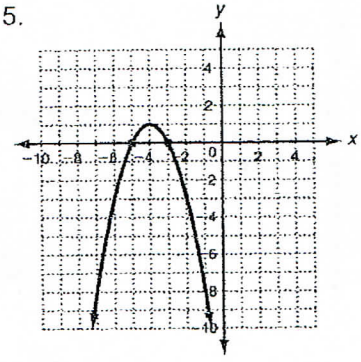
3. 

_____

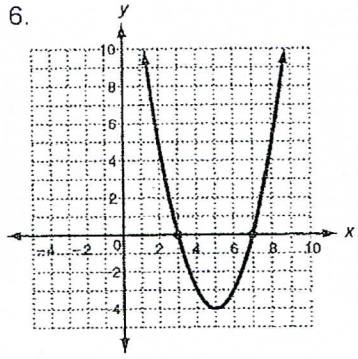
Find the axis of symmetry of each parabola. and the zeros

4. 

_____

5. 

_____

6. 

_____

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

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

Find *a*: _____

Find *b*: _____

Find $-\frac{b}{2a}$. _____

Axis of symmetry: _____

Vertex: _____

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

Find *a*: _____

Find *b*: _____

Find $-\frac{b}{2a}$. _____

Axis of symmetry: _____

Vertex: _____

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

Find *a*: _____

Find *b*: _____

Find $-\frac{b}{2a}$. _____

Axis of symmetry: _____

Vertex: _____

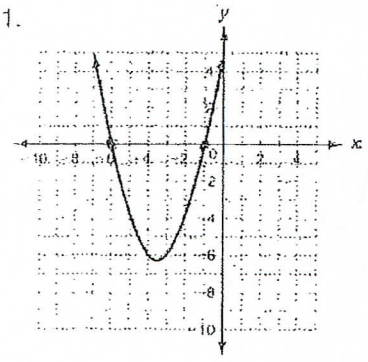
Name _____ Date _____ Class _____

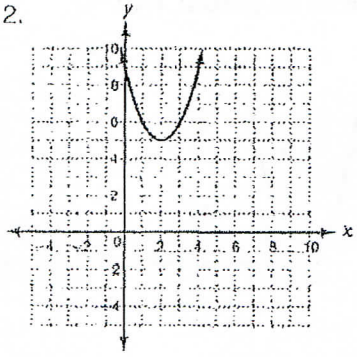
LESSON 8-2

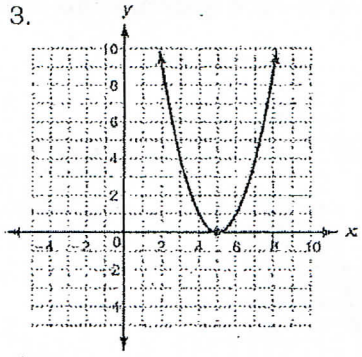
Practice B

Characteristics of Quadratic Functions

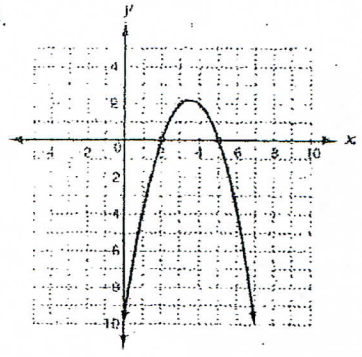
Find the zeros of each quadratic function from its graph. and AOS

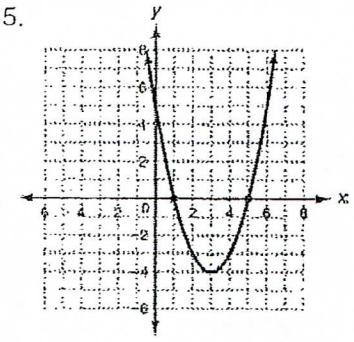
1. 

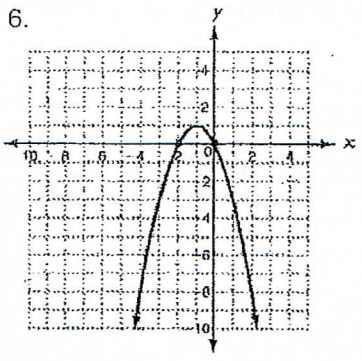
2. 

3. 

Find the axis of symmetry of each parabola. and the zeros

4. 

5. 

6. 

For each quadratic function, find the axis of symmetry of its graph. $x =$

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

8. $y = -x^2 + 4x$

9. $y = 4x^2 + \frac{1}{2}x + 3$

Find the vertex of each parabola. and AOS

10. $y = 3x^2 - 6x - 2$

11. $y = 3x^2 + 12x - 10$

12. $y = x^2 + 2x - 35$