

MODULE 6 Graphing Quadratic Functions

LESSON 6-1

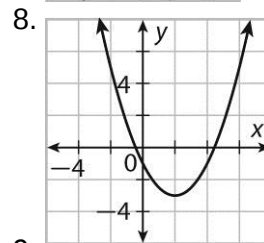
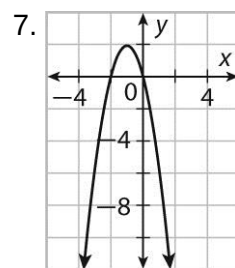
Practice and Problem Solving: A/B

1. a. upward
b. minimum 0
c. no
d. stretch
2. a. downward
b. maximum 0
c. yes
d. stretch
3. a. downward
b. maximum 0
c. yes
d. stretch
4. a. upward
b. minimum
c. no
d. compression
5. (0, 0), 0, none, no, stretch
6. (0, 0), none, 0, yes, stretch
7. 3

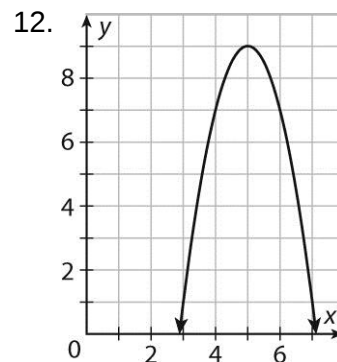
LESSON 6-2

Practice and Problem Solving: A/B

1. (3, -4)
2. up
3. -4
4. 2
5. -4
6. $y = (x - 2)^2 - 4$



9. (5, 9)
10. $x = 5$
11. (4, 7) and (6, 7)



LESSON 6-3

Practice and Problem Solving: A/B

1. Quadratic

2. Not quadratic

3. Not quadratic

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

5. $y = -x^2 + 2x - 1$, $x = 1$

6. $y = -5x^2 + 2x - 2$, $x = \frac{1}{5}$

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

8. $y = 3x^2 - 30x + 79$

9. $y = 5(x - 1)^2 - 3$

$$y = 5x^2 - 10x + 2$$

10. $y = 4(x + 3)^2 - 2$

$$y = 4x^2 + 24x + 34$$

11. $y = -(x - 3)^2 + 4$