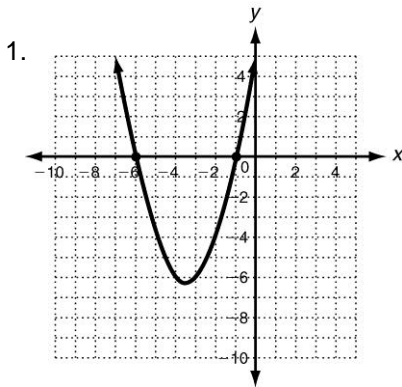
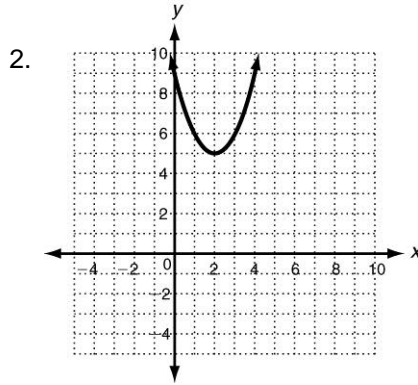


Chapter 9: Characteristics of Quadratic Functions

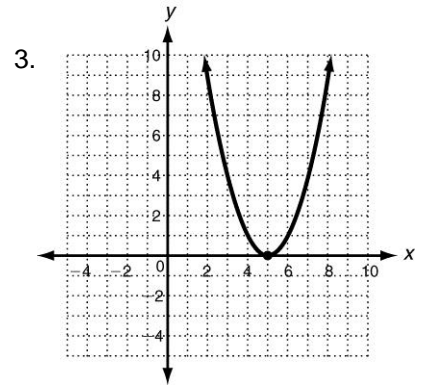
Find the axis of symmetry (a), minimum or maximum (b), domain (c), range (d) and solutions (e) of each quadratic function from its graph.



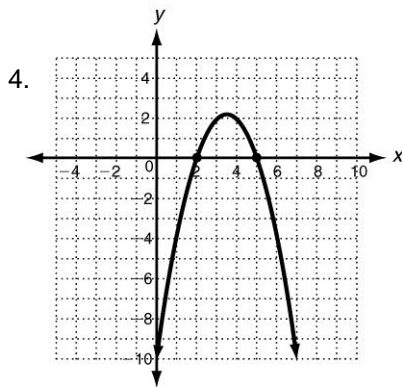
- a. _____
- b. _____
- c. _____
- d. _____
- e. _____



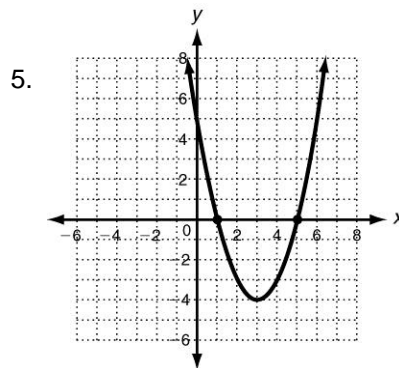
- a. _____
- b. _____
- c. _____
- d. _____
- e. _____



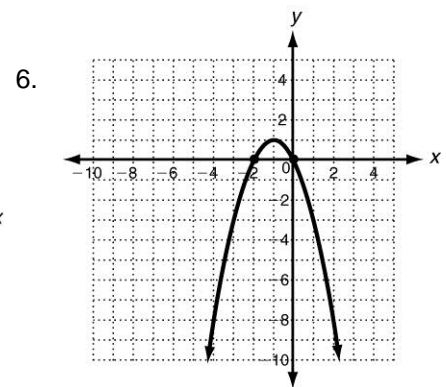
- a. _____
- b. _____
- c. _____
- d. _____
- e. _____



- a. _____
- b. _____
- c. _____
- d. _____
- e. _____



- a. _____
- b. _____
- c. _____
- d. _____
- e. _____



- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

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

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 quadratic equation.

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

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

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

Graph the quadratic functions. Identify the solutions.

13. $y = x^2 + 8x + 16$

14. $1 = -3x^2$

