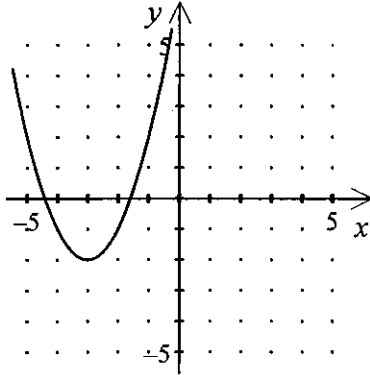
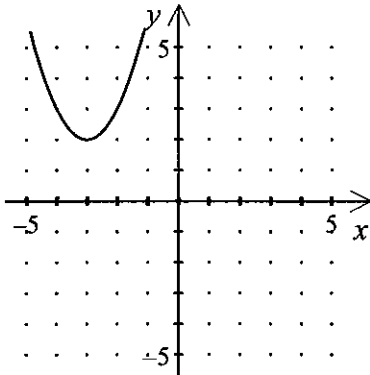


1. Write the equation of the parabola in vertex form.



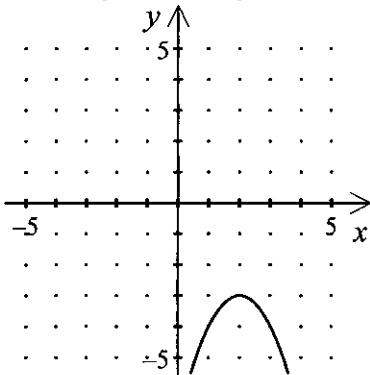
- [A] $y = (x+3)^2 - 2$ [B] $y = (x-3)^2 + 2$
 [C] $y = (x+3)^2 + 2$ [D] $y = (x-3)^2 - 2$

2. Write the equation of the parabola in vertex form.



- [A] $y = (x+3)^2 + 2$ [B] $y = (x+3)^2 - 2$
 [C] $y = (x-3)^2 + 2$ [D] $y = (x-3)^2 - 2$

3. Write the equation of the parabola in vertex form.



- [A] $y = -(x-2)^2 - 3$ [B] $y = -(x+2)^2 - 3$
 [C] $y = -(x+2)^2 + 3$ [D] $y = -(x-2)^2 + 3$

4. Identify the vertex and y -intercept of the graph of the function.

$$f(x) = -4(x+2)^2 + 9$$

- [A] $(2, 9)$, y -intercept 1 [B] $(-2, -9)$, y -intercept -7
 [C] $(-2, 9)$, y -intercept -7
 [D] $(2, -9)$, y -intercept 1

5. Identify the vertex and y -intercept of the graph of the function.

$$f(x) = -2(x+4)^2 - 3$$

- [A] $(-4, -3)$, y -intercept -35
 [B] $(4, -3)$, y -intercept -11
 [C] $(-4, 3)$, y -intercept -35
 [D] $(4, 3)$, y -intercept -11

6. Identify the vertex and y -intercept of the graph of the function.

$$f(x) = 2(x+5)^2 - 7$$

- [A] $(-5, -7)$, y -intercept 43
 [B] $(5, -7)$, y -intercept 3
 [C] $(5, 7)$, y -intercept 3 [D] $(-5, 7)$, y -intercept 43

7. Identify the vertex and y -intercept of the graph of the function.

$$f(x) = -4(x-2)^2 + 3$$

- [A] $(-2, 3)$, y -intercept 11 [B] $(-2, -3)$, y -intercept 11
 [C] $(2, -3)$, y -intercept -13
 [D] $(2, 3)$, y -intercept -13

8. Write the equation in vertex form.

$$y = 5x^2 + 70x + 243$$

- [A] $y = 5(x+7)^2 - 2$ [B] $y = 5(x-7)^2 - 2$
 [C] $y = 5(x-7)^2 + 2$ [D] $y = 5(x+7)^2 + 2$

9. Write the equation in vertex form.

$$y = 9x^2 + 18x + 4$$

- [A] $y = 9(x+1)^2 - 5$ [B] $y = 9(x+1)^2 + 5$
 [C] $y = 9(x-1)^2 - 5$ [D] $y = 9(x-1)^2 + 5$

10. Write the equation in vertex form.

$$y = -8x^2 + 112x - 397$$

[A] $y = -8(x + 7)^2 + 5$ [B] $y = -8(x - 7)^2 + 5$

[C] $y = -8(x - 7)^2 - 5$ [D] $y = -8(x + 7)^2 - 5$

11. Write the equation of the parabola in vertex form.

vertex $(-6, -8)$, point $(-3, -35)$

[A] $y = -3(x + 6)^2 - 8$ [B] $y = -3(x + 3)^2 - 35$

[C] $y = (x - 6)^2 + 8$ [D] $y = -2(x - 3)^2 + 35$

12. Write the equation of the parabola in vertex form.

vertex $(3, 5)$, point $(6, 23)$

[A] $y = 2(x - 6)^2 - 23$ [B] $y = 2(x - 3)^2 + 5$

[C] $y = \frac{1}{2}(x + 6)^2 + 23$ [D] $y = (x + 3)^2 - 5$

13. Write the function in standard form.

$$y = -2(x + 8)^2 - 7$$

14. Write the function in standard form.

$$y = 4(x + 6)^2 - 1$$

15. Graph the function.

$$y = 3(x + 1)^2 + 3$$

16. Graph the function.

$$y = 3(x - 4)^2 + 5$$

Reference: [5.3.1.26]

[1] [A] _____

Reference: [5.3.1.26]

[2] [A] _____

Reference: [5.3.1.26]

[3] [A] _____

Reference: [5.3.1.28]

[4] [C] _____

Reference: [5.3.1.28]

[5] [A] _____

Reference: [5.3.1.28]

[6] [A] _____

Reference: [5.3.1.28]

[7] [D] _____

Reference: [5.3.1.30]

[8] [A] _____

Reference: [5.3.1.30]

[9] [A] _____

Reference: [5.3.1.30]

[10] [C] _____

Reference: [5.3.1.33]

[11] [A] _____

Reference: [5.3.1.33]

[12] [B] _____

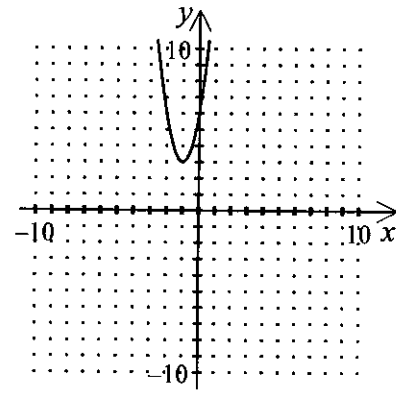
Reference: [5.3.1.32]

[13] $y = -2x^2 - 32x - 135$

Reference: [5.3.1.32]

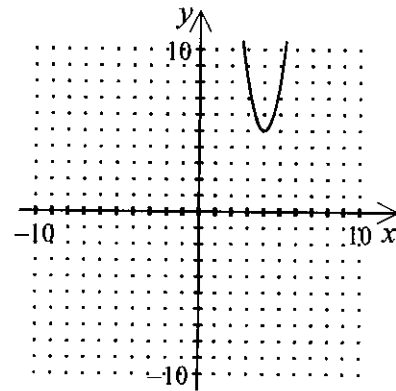
[14] $y = 4x^2 + 48x + 143$

Reference: [5.3.1.25]



[15] _____

Reference: [5.3.1.25]



[16] _____