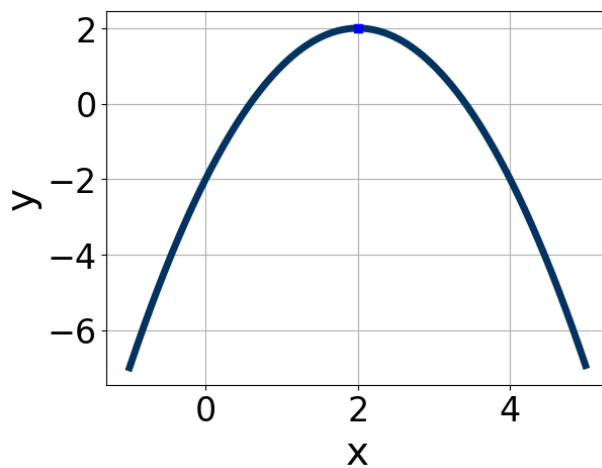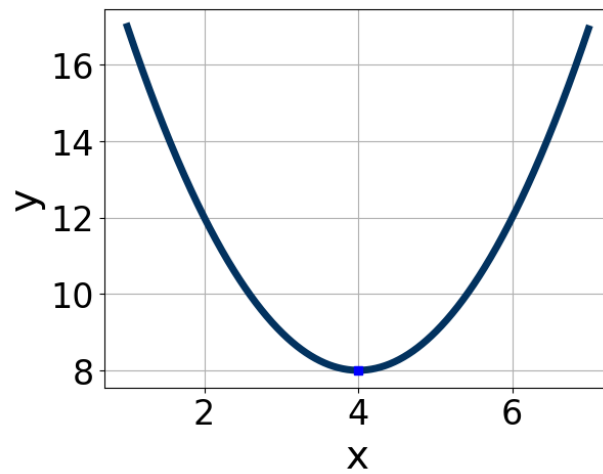1. Write the equation of the graph presented below in the form $f(x) = ax^2 + bx + c$, assuming $a = 1$ or $a = -1$.

2. Write the equation of the graph presented below in the form $f(x) = ax^2 + bx + c$, assuming $a = 1$ or $a = -1$.

3. Solve the quadratic equation below.

$$17x^2 - 13x - 5 = 0$$

4. Solve the quadratic equation below.

$$25x^2 + 60x + 36 = 0$$

5. Factor the quadratic below into the form $(ax + b)(cx + d)$.

$$81x^2 - 18x - 8$$

6. Graph the equation below.

$$f(x) = -(x + 4)^2 + 14$$

7. Graph the equation below.

$$f(x) = -(x+2)^2 - 10$$

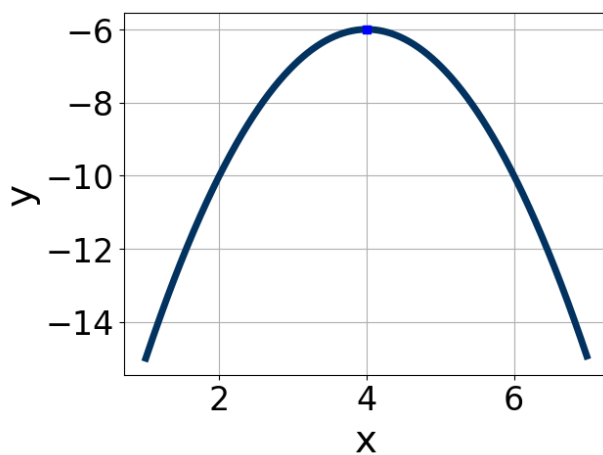8. Solve the quadratic equation below.

$$-17x^2 + 15x + 4 = 0$$

9. Factor the quadratic below into the form $(ax + b)(cx + d)$.
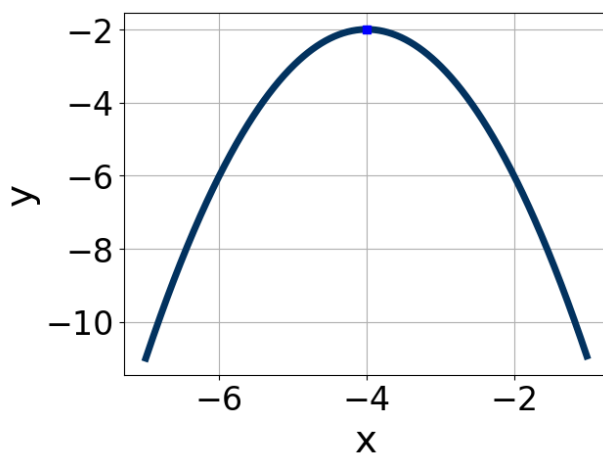
$$24x^2 + 38x + 15$$

10. Solve the quadratic equation below.

$$10x^2 - 57x + 54 = 0$$

11. Write the equation of the graph presented below in the form $f(x) = ax^2 + bx + c$, assuming $a = 1$ or $a = -1$.

12. Write the equation of the graph presented below in the form $f(x) = ax^2 + bx + c$, assuming $a = 1$ or $a = -1$.

13. Solve the quadratic equation below.

$$13x^2 - 11x - 6 = 0$$

14. Solve the quadratic equation below.

$$15x^2 + 38x + 24 = 0$$

15. Factor the quadratic below into the form $(ax + b)(cx + d)$.

$$24x^2 + 38x + 15$$

16. Graph the equation below.

$$f(x) = -(x+2)^2 - 13$$

17. Graph the equation below.

$$f(x) = -(x + 4)^2 - 15$$

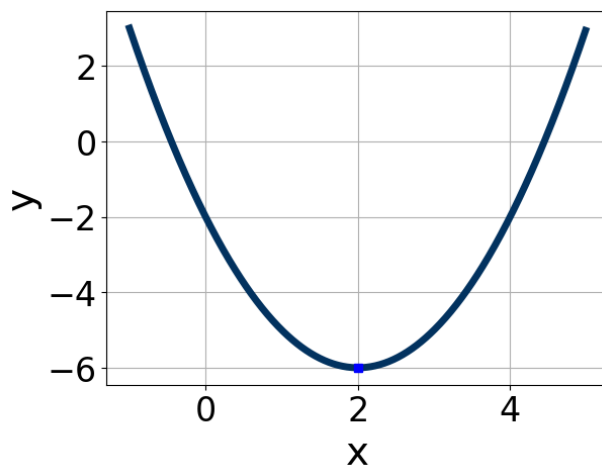18. Solve the quadratic equation below.

$$-16x^2 - 11x + 3 = 0$$

19. Factor the quadratic below into the form $(ax + b)(cx + d)$.
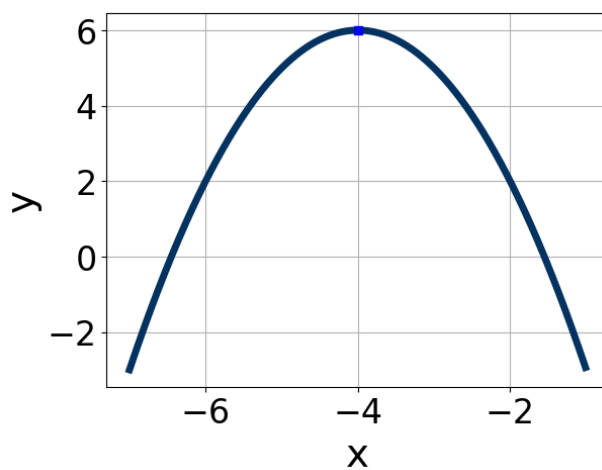
$$24x^2 + 50x + 25$$

20. Solve the quadratic equation below.

$$15x^2 - 2x - 24 = 0$$

21. Write the equation of the graph presented below in the form $f(x) = ax^2 + bx + c$, assuming $a = 1$ or $a = -1$.

22. Write the equation of the graph presented below in the form $f(x) = ax^2 + bx + c$, assuming $a = 1$ or $a = -1$.

23. Solve the quadratic equation below.

$$-14x^2 - 14x + 9 = 0$$

24. Solve the quadratic equation below.

$$15x^2 - 38x + 24 = 0$$

25. Factor the quadratic below into the form $(ax + b)(cx + d)$.

$$54x^2 + 57x + 10$$

26. Graph the equation below.

$$f(x) = (x - 3)^2 - 17$$

27. Graph the equation below.

$$f(x) = -(x - 1)^2 - 17$$

28. Solve the quadratic equation below.

$$18x^2 + 14x + 2 = 0$$

29. Factor the quadratic below into the form $(ax + b)(cx + d)$.

$$24x^2 - 2x - 15$$

30. Solve the quadratic equation below.

$$10x^2 + 57x + 54 = 0$$