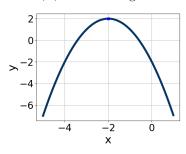
16. Factor the quadratic below. Then, choose the intervals that contain the constants in the form (ax + b)(cx + d); $b \le d$.

$$36x^2 - 60x + 25$$

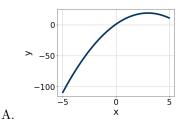
- $\text{A. } a \in [5.5, 6.95], \quad b \in [-9, -4], \quad c \in [5.7, 8.1], \text{ and } \quad d \in [-6, -3]$
- B. $a \in [11.68, 12.15], b \in [-9, -4], c \in [2.5, 3.8], and <math>d \in [-6, -3]$
- C. $a \in [1.59, 3.4], b \in [-9, -4], c \in [17.6, 20.4], and <math>d \in [-6, -3]$
- $\text{D. } a \in [0.6, 1.01], \quad b \in [-32, -25], \quad c \in [-0.2, 1.2], \text{ and } \quad d \in [-37, -26]$
- E. None of the above.
- 17. Write the equation of the graph presented below in the form $f(x) = ax^2 + bx + c$, assuming a = 1 or a = -1. Then, choose the intervals that a, b, and c belong to.

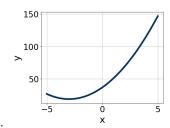


- A. $a \in [-3, 0], b \in [3, 7], \text{ and } c \in [-10, -3]$
- B. $a \in [-3, 0], b \in [3, 7], \text{ and } c \in [-4, 3]$
- C. $a \in [-3, 0], b \in [-7, -3], \text{ and } c \in [-4, 3]$
- D. $a \in [0,3], b \in [3,7], \text{ and } c \in [5,7]$
- E. $a \in [0,3]$, $b \in [-7,-3]$, and $c \in [5,7]$
- 18. Solve the quadratic equation below. Then, choose the intervals that the solutions x_1 and x_2 belong to, with $x_1 \leq x_2$.

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

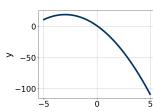
- A. $x_1 \in [-20.36, -18.44]$ and $x_2 \in [17.68, 18.25]$
- B. $x_1 \in [-1.9, -1.25]$ and $x_2 \in [1.14, 2.13]$
- C. $x_1 \in [-3.67, -1.84]$ and $x_2 \in [0.44, 0.65]$
- D. $x_1 \in [-4.43, -3.18]$ and $x_2 \in [0.32, 0.41]$
- E. $x_1 \in [-0.65, 1.56]$ and $x_2 \in [2.73, 4.57]$
- 19. Graph the equation $f(x) = 19 2(x 3)^2$.



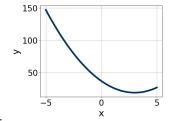




C.



D.



E. None of the above

20. Solve the quadratic equation below. Then, choose the intervals that the solutions belong to, with $x_1 \leq x_2$ (if they exist).

$$-11x^2 + 10x + 4 = 0$$

- A. $x_1 \in [-16.9, -14.2]$ and $x_2 \in [16.93, 17.53]$
- B. $x_1 \in [-0.7, 1]$ and $x_2 \in [0.91, 1.55]$
- C. $x_1 \in [-1.6, -0.8]$ and $x_2 \in [0.11, 0.34]$
- D. $x_1 \in [-13.4, -13.1]$ and $x_2 \in [2.58, 3.68]$
- E. There are no Real solutions.