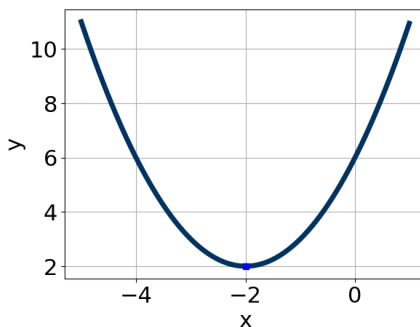


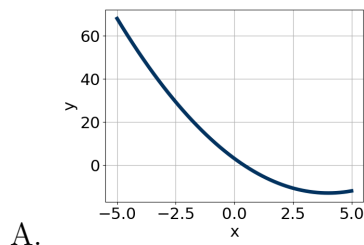
16. Write the equation of the graph presented below in the form $f(x) = ax^2 + bx + c$, assuming $a = 1$ or $a = -1$. Then, choose the intervals that a, b , and c belong to.



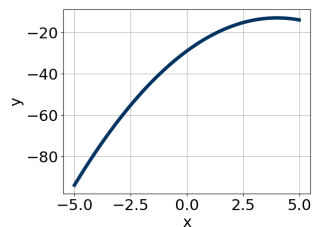
$a =$ $b =$ $c =$

- A. $a \in [-1.9, -0.2]$, $b \in [7, 11]$, and $c \in [-15, -13]$
B. $a \in [-1.9, -0.2]$, $b \in [-10, -7]$, and $c \in [-24, -15]$
C. $a \in [-2, 0]$, $b \in [-10, -7]$, and $c \in [-15, -13]$
D. $a \in [-1.9, -0.2]$, $b \in [7, 11]$, and $c \in [-24, -15]$
E. $a \in [0.6, 1.1]$, $b \in [-10, -7]$, and $c \in [-15, -13]$

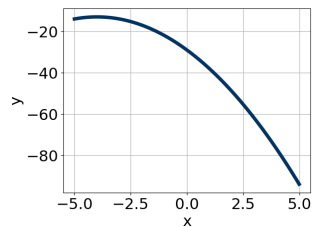
17. Graph the equation $f(x) = (x - 4)^2 - 19$.



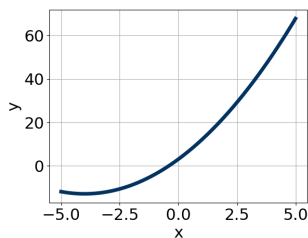
A.



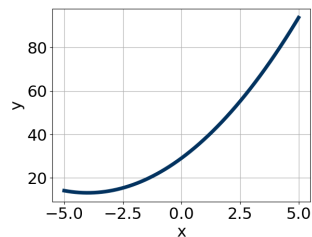
C.



D.



B.



E.

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

$$64x^2 - 48x + 9$$

$a = \boxed{} \quad b = \boxed{} \quad c = \boxed{} \quad d = \boxed{}$

- A. $a \in [14.5, 17]$, $b \in [-3.5, -2]$, $c \in [3, 5]$, and $d \in [-4.5, -2.5]$
B. $a \in [0.5, 2]$, $b \in [-3.5, -2]$, $c \in [62.5, 65]$, and $d \in [-4.5, -2.5]$
C. $a \in [7, 9.5]$, $b \in [-3.5, -2]$, $c \in [7.5, 8.5]$, and $d \in [-4.5, -2.5]$
D. $a \in [0.5, 2]$, $b \in [2, 4]$, $c \in [62.5, 65]$, and $d \in [2.5, 3.5]$
E. $a \in [2.5, 5]$, $b \in [-3.5, -2]$, $c \in [15, 17]$, and $d \in [-4.5, -2.5]$
-

19. Solve the quadratic equation below. Then, choose the intervals that the solutions x_1 and x_2 belong to, with $z_1 \leq z_2$.

$$486x^2 - 27x - 9 = 0$$

$x_1 = \boxed{} \quad x_2 = \boxed{}$

- A. $x_1 \in [-0.14, -0.09]$ and $x_2 \in [0.16, 0.2]$
B. $x_1 \in [-0.03, 0.05]$ and $x_2 \in [2.97, 3.07]$
C. $x_1 \in [-0.35, -0.3]$ and $x_2 \in [0.05, 0.06]$
D. $x_1 \in [-3.03, -2.92]$ and $x_2 \in [-0.01, 0.05]$
E. $x_1 \in [-0.04, -0.03]$ and $x_2 \in [0.49, 0.51]$
-

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

$$5x^2 - 8x - 7 = 0$$

$x_1 = \boxed{} \quad x_2 = \boxed{}$

- A. $x_1 \in [-3.24, -2.79]$ and $x_2 \in [10.84, 11.22]$
B. $x_1 \in [-3.01, -1.95]$ and $x_2 \in [0.21, 1.25]$
C. $x_1 \in [-0.94, -0.52]$ and $x_2 \in [2, 2.54]$
D. $x_1 \in [-11.84, -10.71]$ and $x_2 \in [2.86, 3.37]$
E. There are no Real solutions.
-