

Which are the binomial factors of $3x^2 - x - 2$?

- A $(3x - 2)(x + 1)$
- B $(3x + 2)(x - 1)$
- C $(3x - 1)(x + 2)$
- D $(3x + 1)(x - 2)$

Subtract.

$$(6x^2 - 3x + 2) - (-6x^2 + 3x - 5)$$

- A $-6x + 7$
- B 7
- C $12x^2 - 6x + 7$
- D $12x^2 - 3$

What is the range of the function shown in the table?

| x | y |
|-----|-----|
| -1 | 0 |
| 0 | 4 |
| 1 | 6 |
| 3 | 8 |
| 5 | 11 |

- A $\{-1, 0, 1, 3, 5\}$
- B $\{-1, 0, 1, 3, 4, 5, 6, 8, 11\}$
- C $\{0, 4, 6, 8, 11\}$
- D All real numbers greater than or equal to 0 and less than or equal to 11

In which direction must the graph of $y = \frac{1}{x}$ be shifted to produce the graph of $y = \frac{1}{x} - 7$?

- A left
- B right
- C up
- D down

What is the solution set of the equation

$$0 = \sqrt{x^2 - 6x - 16}?$$

- A $\{-1, 16\}$
- B $\{-4, 4\}$
- C $\{-2, -8\}$
- D $\{-2, 8\}$

Which set of ordered pairs is not a function?

- A $(-1, 0), (0, 1), (1, 2), (2, 3)$
- B $(-1, 0), (0, 0), (1, 0), (2, 0)$
- C $(1, -1), (1, 0), (1, 1), (1, 2)$
- D $(-1, 1), (0, 0), (1, 1), (2, 2)$

Solve using the quadratic formula.

$$y = 5x^2 + 6x - 2$$

- A $\frac{-3 \pm 2\sqrt{19}}{10}$
- B $\frac{3 \pm \sqrt{19}}{5}$
- C $\frac{-3 \pm \sqrt{19}}{5}$
- D $\frac{-3 \pm 6\sqrt{19}}{5}$