

Assessment

Lesson-13



Question 1

This a quadratic equation

$$4x^2 = 7 - 3x$$

- A. True
- B. False

Question 2

This is a quadratic equation

$$x^2 - 2x = x + 3$$

- A. True
- B. False

Question 3

Which of the following is a quadratic equation?

A. $2x^3 - 32 = x$

B. $2x - 10 = 15$

C. $x^2 + 6 = 0$

D. $x + 2 = 10$

Question 4

Which quadratic equation is written in standard form?

A. $8x + 5x^2 - 9 = 0$

B. $5x^2 + 8x - 9 = 0$

C. $5x^2 + 8x = 9$

D. $9 - 8x - 5x^2 = 0$

Question 5

What are the factors of this quadratic equation?

$$x^2 - 3x - 4 = 0$$

- A. $(x + 2)(x - 2)$
- B. $(x - 1)(x + 4)$
- C. $(x - 1)(x - 4)$
- D. $(x - 4)(x + 1)$

Question 6

Solve this quadratic equation.

$$(4x + 5)(x + 1) = 0$$

- A. $x = \left\{\frac{5}{4}, 1\right\}$
- B. $x = \{0\}$
- C. $x = \left\{-\frac{5}{4}, -1\right\}$
- D. $x = \left\{\frac{5}{4}, -1\right\}$

Question 7

Solve this quadratic equation by factoring.

$$5x^2 - 44x + 120 = -30 + 11x$$

- A. $x = \{6, 5\}$
- B. $x = \{-6, -5\}$
- C. $x = \{6, -5\}$
- D. $x = \{-6, 5\}$

Question 8

Solve this quadratic equation by factoring.

$$x^2 = 10x - 24$$

- A. $x = \{24, -1\}$
- B. $x = \{-4, -6\}$
- C. $x = \{4, 6\}$
- D. $x = \{1, 24\}$

Question 9

Solve this quadratic equation by factoring.

$$(x + 4)^2 - 25 = 0$$

- A. $x = \{9, -1\}$
- B. $x = \{-29\}$
- C. $x = \{-9, 1\}$
- D. $x = \{1\}$

Question 11

Solve this quadratic equation.

$$3x^2 + 10x = 8$$

A. $x = \left\{ \frac{2}{3}, -4 \right\}$

B. $x = \left\{ -\frac{2}{3}, 4 \right\}$

C. $x = \left\{ \frac{3}{2}, -4 \right\}$

D. $x = \left\{ -\frac{3}{2}, 4 \right\}$

Question 12

Solve this quadratic equation.

$$10x^2 = 2 - x$$

- A. $x = \{0, 2\}$
- B. $x = \left\{-1, \frac{1}{5}\right\}$
- C. $x = \left\{\frac{2}{5}, \frac{1}{2}\right\}$
- D. $x = \left\{-\frac{1}{2}, \frac{2}{5}\right\}$

Question 13

Solve this quadratic equation.

$$x^2 - 7x - 10 = -6x + 10$$

- A. $x = \{0, 1\}$
- B. $x = \{-4, 5\}$
- C. $x = \{-5, 4\}$
- D. $x = \{-1, 0\}$