

Assessment

Lesson-14



Question 1

The equation $x^2 = 121$ has

- A. 1 real solution
- B. 2 imaginary solutions
- C. No solution
- D. 2 real solutions

Question 2

The equation $x^2 - 18 = 0$ has

- A. 2 real solutions
- B. 1 real solution
- C. 2 imaginary solutions
- D. No solution

Question 3

The equation $x^2 + 20 = 4$ has

- A. 1 real solution
- B. 2 real solutions
- C. 2 imaginary solutions
- D. No solution

Question 4

Find the value of 'c' that will complete the square of the following quadratic polynomial.

$$x^2 + 12x + c$$

- A. 6
- B. 36
- C. 12
- D. -6

Question 5

Find the value of 'c' that will allow this polynomial to be written as a perfect square.

$$x^2 - 7x + c$$

A. $\frac{7}{2}$

B. $-\frac{49}{4}$

C. -7

D. $\frac{49}{4}$

Question 6

Use the square root property to solve this quadratic equation.

$$x^2 - 4 = 0$$

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

Question 7

Use the square root property to solve this quadratic equation

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

A. $\{9, -1\}$

B. $\{-29\}$

C. $\{-9, 1\}$

D. $\{1\}$

Question 8

Use the square root property to solve this quadratic equation

$$(x-1)^2 = -12$$

- A. $-1 \pm 2i\sqrt{3}$
- B. -11
- C. $3i\sqrt{3}$
- D. $1 \pm 2i\sqrt{3}$

Question 9

Solve this quadratic equation by completing the square.

$$x^2 - 4x = 5$$

- A. $\{11, -7\}$
- B. $\{1.73, -1.73\}$
- C. $\{5, -1\}$
- D. $\{1, 3\}$

Question 10

Solve this quadratic equation by completing the square.

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

- A. $\{0, 14\}$
- B. 49
- C. ± 7
- D. $\{-14, 0\}$