

Algebra I EOC Practice #19

SPI 3102.3.10: Find the solution of a quadratic equation and/or zeros of a quadratic function.

1. Which values of x make the equation true?

$$x^2 + 4x - 21 = 0$$

- A. -3 and 7
- B. -7 and 3
- C. 3 and 7
- D. -7 and -3

2. Solve $x^2 - 3 = 8x - 19$

- A. -4
- B. -2
- C. 2
- D. 4

3. Solve $x^2 - 6x + 3 = 0$

- A. $9 \pm \sqrt{3}$
- B. $3 \pm \sqrt{3}$
- C. $3 \pm \sqrt{6}$
- D. $6 \pm \sqrt{6}$

4. Which values of x make the equation true?

$$x^2 - 10x + 15 = 3x - 15$$

- A. 3 and 10
- B. -3 and -10
- C. 5 and 6
- D. -5 and -6

5. Which values of x make the equation true?

$$2x^2 + 11x - 21 = 0$$

- A. 7 and -3
- B. $-\frac{3}{2}$ and 7
- C. -3 and 7
- D. -7 and $\frac{3}{2}$

6. Solve $x^2 + 3 = 4x + 35$

- A. 7 and -5
- B. -7 and 5
- C. 8 and -4
- D. -8 and 4

7. Solve $x^2 + 10x + 15 = 0$.

- A. $-5 \pm \sqrt{35}$
- B. $5 \pm \sqrt{10}$
- C. $-10 \pm \sqrt{5}$
- D. $-5 \pm \sqrt{10}$

8. Which value of x makes the equation true?

$$3x^2 + 14x + 5 = 0$$

- A. -5 and $-\frac{1}{3}$
- B. 5 and $\frac{1}{3}$
- C. -3 and -5
- D. 3 and 5