

LT 3.6 Skills Practice

Solving Quadratic Equations by Factoring

Solve the following quadratic equations by factoring.

1. $3x^2 - 12 = 0$

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

$$3(x - 2)(x + 2) = 0$$

$x = 2, -2$

2. $15x^2 - 240 = 0$

$$x = 4, -4$$

3. $9x^2 - 25 = 0$

$$x = -5/3, 5/3$$

4. $x^2 - 121 = 0$

$$x = 11, -11$$

5. $12x^2 - 108x = 0$

$$x = 0, 9$$

Solve each equation by factoring.

6. $64x^2 + 112x + 49 = 0$

$$x = -7/8, -7/8$$

7. $289x^2 + 34x + 1 = 0$

$$x = -1/17, -1/17$$

8. $121x^2 - 88x + 16 = 0$

$$x = 4/11, 4/11$$

9. $x^2 - 20x + 100 = 0$

$$x = 10, 10$$