

Solving Using the Quadratic Formula Worksheet

The Quadratic Formula: For quadratic equations: $ax^2 + bx + c = 0$,

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Solve each equation using the Quadratic Formula.

1. $4x^2 + 11x - 20 = 0$

2. $x^2 - 5x - 24 = 0$

3. $x^2 = 3x + 3$

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

5. $x^2 = -x + 1$

6. $4x^2 - 1 = -8x$

7. $4x^2 + 7x - 15 = 0$

8. $x^2 + 3x - 10 = 0$

$$9. x^2 = x + 3$$

$$10. 2x^2 + 23 = 14x$$

$$11. x^2 = 2x + 48$$

$$12. 2x^2 + 39 = -18x$$

$$13. 5x^2 + 3x + 1 = 0$$

$$14. 5x^2 + 50x = -125$$