

Review: Solving Quadratic Equations: The Quadratic Formula

Solve each equation using the Quadratic Formula

1) $x^2 + 7x + 12 = 0$

2) $x^2 + x = 12$

3) $2x^2 + 11x + 12 = 0$

4) $2x^2 + 1 = 3x$

5) $x^2 = -2x - 1$

6) $x^2 + 4x + 1 = 0$

7) $x^2 - 4x + 2 = 0$

8) $2x^2 + 6x - 1 = 0$

Answers:

1) $\{-4, -3\}$

2) $\{-4, 3\}$

3) $\{-4, -3/2\}$

4) $\{1/2, 1\}$

5) $\{-1\}$

6) $\{-2 \pm \sqrt{3}\}$

7) $\{2 \pm \sqrt{2}\}$

8) $\left\{ \frac{-3 \pm \sqrt{11}}{2} \right\}$