

U3B SG ~ Solving Quadratic Functions

Solve each equation by factoring.

1) $(x - 1)(5x + 8) = 0$

2) $n^2 - n - 12 = 0$

3) $7r^2 + 3r = 0$

Solve each equation by taking square roots.

4) $a^2 = 25$

5) $p^2 + 1 = 82$

6) $-4 + 64r^2 = 60$

Solve each equation by completing the square.

7) $x^2 + 12x - 37 = 8$

Solve each equation with the quadratic formula.

8) $2x^2 - 10x + 11 = 0$

Solve each equation by factoring, use any factoring method you choose.

9) $k^2 + 7k + 6 = 0$

10) $7r^2 - 42r = 0$

11) $3m^2 - 6m - 9 = 0$

12) $n^2 + 8n + 15 = 0$

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Solve each equation by factoring.

1) $(x - 1)(5x + 8) = 0$

$\left\{1, -\frac{8}{5}\right\}$

2) $n^2 - n - 12 = 0$

$\{4, -3\}$

3) $7r^2 + 3r = 0$

$\left\{-\frac{3}{7}, 0\right\}$

Solve each equation by taking square roots.

4) $a^2 = 25$

$\{5, -5\}$

5) $p^2 + 1 = 82$

$\{9, -9\}$

6) $-4 + 64r^2 = 60$

$\{1, -1\}$

Solve each equation by completing the square.

7) $x^2 + 12x - 37 = 8$

$\{3, -15\}$

Solve each equation with the quadratic formula.

8) $2x^2 - 10x + 11 = 0$

$\left\{ \frac{5 + \sqrt{3}}{2}, \frac{5 - \sqrt{3}}{2} \right\}$

Solve each equation by factoring, use any factoring method you choose.

9) $k^2 + 7k + 6 = 0$

$\{-1, -6\}$

10) $7r^2 - 42r = 0$

$\{6, 0\}$

11) $3m^2 - 6m - 9 = 0$

$\{-1, 3\}$

12) $n^2 + 8n + 15 = 0$

$\{-3, -5\}$