

## Quadratic Formula #1

Solve each equation with the quadratic formula.

1)  $10k^2 - 11 = 0$

2)  $11m^2 + 11m - 13 = 0$

3)  $8n^2 + 4n - 11 = 0$

4)  $9n^2 + 4n + 5 = 0$

5)  $x^2 - 4x - 96 = 0$

6)  $a^2 - 16 = 0$

7)  $4k^2 - 6k - 54 = 0$

8)  $6r^2 + 8r - 78 = 0$

9)  $11n^2 - 12n - 4 = 0$

10)  $12x^2 - 7x + 11 = 0$

11)  $k^2 + 10k + 9 = 0$

12)  $6x^2 + x - 100 = 0$

## Answers to Quadratic Formula #1

$$1) \left\{ \frac{\sqrt{110}}{10}, -\frac{\sqrt{110}}{10} \right\}$$

4) No solution.

$$8) \left\{ 3, -\frac{13}{3} \right\}$$

$$11) \{-1, -9\}$$

$$2) \left\{ \frac{-11 + 3\sqrt{77}}{22}, \frac{-11 - 3\sqrt{77}}{22} \right\}$$

$$5) \{12, -8\}$$

$$9) \left\{ \frac{6 + 4\sqrt{5}}{11}, \frac{6 - 4\sqrt{5}}{11} \right\}$$

$$12) \left\{ 4, -\frac{25}{6} \right\}$$

$$3) \left\{ \frac{-1 + \sqrt{23}}{4}, \frac{-1 - \sqrt{23}}{4} \right\}$$

$$6) \{4, -4\}$$

10) No solution.

$$7) \left\{ \frac{9}{2}, -3 \right\}$$