

Solving Quadratics with the Quadratic Formula

CLASS EXAMPLES: Solve each equation with the quadratic formula. - RATIONAL ANSWERS

1) $v^2 + 4v + 3 = 0$

2) $-3b^2 + 2b + 5 = -3$

NOW YOU TRY: Solve each equation with the quadratic formula - RATIONAL ANSWERS

3) $b^2 + 4b + 3 = 0$

4) $2m^2 + m - 18 = 3$

CLASS EXAMPLES: Solve each equation with the quadratic formula. - Round DECIMAL ANSWERS to the nearest Thousandth

5) $6p^2 - 17 = -5$

6) $5n^2 - 4 = -5$

NOW YOU TRY: Solve each equation with the quadratic formula. - Round DECIMAL ANSWERS to the nearest Thousandth

7) $4r^2 + 8r - 1 = 0$

8) $2x^2 - 10 = 12$

**CLASS EXAMPLES: Solve each equation with the quadratic formula - Irrational Answers
Level 1**

9) $2a^2 + 3a - 7 = 0$

10) $x^2 - 11x + 25 = 11$

NOW YOU TRY: Solve each equation with the quadratic formula - Irrational Answers Level 1

11) $2r^2 - r - 2 = 0$

12) $p^2 - 3p - 4 = -2$

**CLASS EXAMPLES: Solve each equation with the quadratic formula. - Irrational Answers
Level 2**

13) $3r^2 - 2r - 5 = 2$

14) $4n^2 - 6 + 3n = 3n - 1$

NOW YOU TRY: Solve each equation with the quadratic formula. - Irrational Answers Level 2

15) $4v^2 + 4v - 9 = 0$

16) $3v^2 - 4v - 8 = 0$

Answers to Solving Quadratics with the Quadratic Formula (ID: 1)

$$\begin{array}{llll} 1) \{-1, -3\} & & 3) \{-1, -3\} & & 5) \{1.414, -1.414\} & & 7) \{0.118, -2.118\} \\ 9) \left\{ \frac{-3 + \sqrt{65}}{4}, \frac{-3 - \sqrt{65}}{4} \right\} & & 11) \left\{ \frac{1 + \sqrt{17}}{4}, \frac{1 - \sqrt{17}}{4} \right\} & & 13) \left\{ \frac{1 + \sqrt{22}}{3}, \frac{1 - \sqrt{22}}{3} \right\} \\ 15) \left\{ \frac{-1 + \sqrt{10}}{2}, \frac{-1 - \sqrt{10}}{2} \right\} & & & & & & \end{array}$$