

10.1 Quadratic Formula v02

Name _____

Date _____

Solve the equation using the quadratic formula. Simplify irrational solutions, if possible.

1) $x^2 + 2x - 15 = 0$

2) $x^2 + 4x - 3 = 0$

3) $x^2 - 4x = 15$

$$4) x^2 + 7x + 5 = 0$$

$$5) y^2 - 5y - 3 = 0$$

$$6) 81x^2 - 90x + 25 = 0$$

$$7) x^2 + 12x + 19 = 0$$

$$8) 2x^2 - 3x - 5 = 0$$

$$9) 49x^2 - 32 = -28x$$

$$10) 3x^2 - 2x - 4 = 0$$

$$11) 3x^2 + 12x + 7 = 0$$

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

Answer Key

Testname: 10.1QUADRATICFORMULAV02

1) $\{3, -5\}$

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

3) $\{2 \pm \sqrt{19}\}$

4) $\left\{\frac{-7 \pm \sqrt{29}}{2}\right\}$

5) $\left\{\frac{5 \pm \sqrt{37}}{2}\right\}$

6) $\left\{\frac{5}{9}\right\}$

7) $\{-6 \pm \sqrt{17}\}$

8) $\left\{\frac{5}{2}, -1\right\}$

9) $\left\{\frac{4}{7}, -\frac{8}{7}\right\}$

10) $\left\{\frac{1 \pm \sqrt{13}}{3}\right\}$

11) $\left\{\frac{-6 \pm \sqrt{15}}{3}\right\}$

12) $\left\{\frac{-3 \pm \sqrt{6}}{2}\right\}$