

ASSIGN #16 ALGEBRA MP3

Name _____

Solving Using the Quadratic Formula Worksheet

The Quadratic Formula: For quadratic equations: $ax^2 + bx + c = 0$,

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Solve each equation using the Quadratic Formula.

$x = \frac{5}{4}$ 1. $4x^2 + 11x - 20 = 0$

$x = -4$

$x = \frac{3 \pm \sqrt{21}}{2}$ 3. $x^2 = 3x + 3$

$x = \frac{-1 \pm \sqrt{5}}{2}$ 5. $x^2 = -x + 1$

$x = \frac{5}{4}$,
 $x = -3$ 7. $4x^2 + 7x - 15 = 0$

$$x = \frac{1 \pm \sqrt{13}}{2} \quad 9. \quad x^2 = x + 3$$

$$x = 0, x = -6 \quad 11. \quad x^2 = 2x + 48$$

$$13. \quad 5x^2 + 3x + 1 = 0$$

$x = \text{NOT}$
 REAL
 $\#$