

Solving Quadratics with the Quadratic Formula Date _____ Period _____

SAMPLE PROBLEMS: Solve each equation with the quadratic formula.

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

2) $-3x^2 + 27 = 0$

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

4) $9r^2 - 11r + 13 = 10$

5) $b^2 + 5b - 5 = 0$

6) $2x^2 - 10x = 1$

7) Homework: Pg 586-587 #10-21 - Leave answers in simplified radical form.

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

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

2) $\{-3, 3\}$

3) $\left\{-1\frac{1}{3}, 2\right\}$

4) $\left\{\frac{11 + \sqrt{13}}{18}, \frac{11 - \sqrt{13}}{18}\right\}$

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

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

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