

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Solving Quadratics Using the Quadratic Formula **Answers**

### Section I. Solve each quadratic with the quadratic formula.

1.  $y = x^2 + 4x - 1$

$$x = -2 \pm \sqrt{5}$$

2.  $y = x^2 - 6x - 16$

$$x = 8 \quad x = 2$$

3.  $y = x^2 - 2x - 9$

$$x = 1 \pm \sqrt{10}$$

4.  $y = x^2 - 3x - 5$

$$x = \frac{3 \pm \sqrt{29}}{2}$$

5.  $y = x^2 + x - 4$

$$x = \frac{-1 \pm \sqrt{17}}{2}$$

6.  $y = 2x^2 - 7x - 13$

$$x = \frac{7 \pm 3\sqrt{17}}{4}$$

7.  $y = -4x^2 - 4x + 1$

$$x = \frac{1 \pm \sqrt{2}}{-2}$$

8.  $y = 2x^2 - 5x - 11$

$$x = \frac{5 \pm \sqrt{113}}{4}$$

9.  $y = 4x^2 + 27x - 7$

$$x = \frac{1}{4} \quad x = -7$$

10.  $y = 3x^2 + 36x + 42$

$$x = -6 \pm \sqrt{22}$$

11.  $y = 2x^2 + 10x + 3$

$$x = \frac{-5 \pm \sqrt{19}}{2}$$

12.  $y = x^2 - 7x + 5$

$$x = \frac{7 \pm \sqrt{29}}{2}$$