

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

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

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

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## The Quadratic Formula

Solve each equation with the quadratic formula.

1)  $6y^2 - 51y + 108 = 0$

6)  $z^2 - 6z - 27 = 0$

2)  $w^2 + 5w - 24 = 0$

7)  $10k^2 + 66k + 36 = 0$

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

8)  $x^2 + 8x - 9 = 0$

4)  $12y^2 + 40y + 12 = 0$

9)  $d^2 + 16d + 55 = 0$

5)  $30x^2 + 18x - 48 = 0$

10)  $15m^2 + 7m - 36 = 0$



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## The Quadratic Formula

Solve each equation with the quadratic formula.

1)  $6y^2 - 51y + 108 = 0$

$$y = \left\{ \frac{9}{2}, 4 \right\}$$

6)  $z^2 - 6z - 27 = 0$

$$z = \{ -3, 9 \}$$

2)  $w^2 + 5w - 24 = 0$

$$w = \{ -8, 3 \}$$

7)  $10k^2 + 66k + 36 = 0$

$$k = \left\{ -6, \frac{-3}{5} \right\}$$

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

$$x = \{ -1, 2 \}$$

8)  $x^2 + 8x - 9 = 0$

$$x = \{ -9, 1 \}$$

4)  $12y^2 + 40y + 12 = 0$

$$y = \left\{ \frac{-1}{3}, -3 \right\}$$

9)  $d^2 + 16d + 55 = 0$

$$d = \{ -11, -5 \}$$

5)  $30x^2 + 18x - 48 = 0$

$$x = \left\{ 1, \frac{-8}{5} \right\}$$

10)  $15m^2 + 7m - 36 = 0$

$$m = \left\{ \frac{-9}{5}, \frac{4}{3} \right\}$$

