

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

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

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

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

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## The Quadratic Formula

Solve each equation with the quadratic formula.

1)  $6k^2 - 19k + 14 = -1$

6)  $g^2 + 3g = 54$

2)  $6h^2 + 13h + 1 = -4$

7)  $s^2 - 7s - 20 = 24$

3)  $20z^2 + 22z - 12 = 4$

8)  $6d^2 - 3d = 30$

4)  $6h^2 - 43h = -72$

9)  $z^2 - 5z = -6$

5)  $6z^2 - 9z = 6$

10)  $d^2 - 3d = 18$



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## The Quadratic Formula

Solve each equation with the quadratic formula.

1)  $6k^2 - 19k + 14 = -1$

$$k = \left\{ \frac{3}{2}, \frac{5}{3} \right\}$$

6)  $g^2 + 3g = 54$

$$g = \{-9, 6\}$$

2)  $6h^2 + 13h + 1 = -4$

$$h = \left\{ \frac{-1}{2}, \frac{-5}{3} \right\}$$

7)  $s^2 - 7s - 20 = 24$

$$s = \{-4, 11\}$$

3)  $20z^2 + 22z - 12 = 4$

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

8)  $6d^2 - 3d = 30$

$$d = \left\{ -2, \frac{5}{2} \right\}$$

4)  $6h^2 - 43h = -72$

$$h = \left\{ \frac{9}{2}, \frac{8}{3} \right\}$$

9)  $z^2 - 5z = -6$

$$z = \{2, 3\}$$

5)  $6z^2 - 9z = 6$

$$z = \left\{ \frac{-1}{2}, 2 \right\}$$

10)  $d^2 - 3d = 18$

$$d = \{-3, 6\}$$

