

Name : _____

Score : _____

Teacher : _____

Date : _____

The Quadratic Formula

Solve each equation with the quadratic formula.

1) $20q^2 + 2q - 6 = 0$

6) $g^2 + 16g = -63$

2) $r^2 - 5r - 66 = 0$

7) $s^2 + 2s - 8 = 0$

3) $z^2 - 3z - 3 = 67$

8) $30y^2 + 43y = 8$

4) $12z^2 - 24z = 63$

9) $15m^2 - 7m - 36 = 0$

5) $30k^2 + 13k - 2 = 1$

10) $24n^2 + 4n - 19 = 29$



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Solve each equation with the quadratic formula.

1) $20q^2 + 2q - 6 = 0$

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

6) $g^2 + 16g = -63$

$$g = \{-7, -9\}$$

2) $r^2 - 5r - 66 = 0$

$$r = \{11, -6\}$$

7) $s^2 + 2s - 8 = 0$

$$s = \{-4, 2\}$$

3) $z^2 - 3z - 3 = 67$

$$z = \{10, -7\}$$

8) $30y^2 + 43y = 8$

$$y = \left\{ \frac{-8}{5}, \frac{1}{6} \right\}$$

4) $12z^2 - 24z = 63$

$$z = \left\{ \frac{-3}{2}, \frac{7}{2} \right\}$$

9) $15m^2 - 7m - 36 = 0$

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

5) $30k^2 + 13k - 2 = 1$

$$k = \left\{ \frac{1}{6}, \frac{-3}{5} \right\}$$

10) $24n^2 + 4n - 19 = 29$

$$n = \left\{ \frac{4}{3}, \frac{-3}{2} \right\}$$

