

Name : _____

Score : _____

Teacher : _____

Date : _____

The Quadratic Formula

Solve each equation with the quadratic formula.

1) $q^2 + 2q = 35$

6) $z^2 + 10z + 24 = 0$

2) $24b^2 + 4b - 2 = 6$

7) $15x^2 + 30x + 15 = 0$

3) $8m^2 + 56m + 66 = 0$

8) $10w^2 + 54w = -20$

4) $z^2 - 4z - 30 = 2$

9) $18q^2 - 45q - 101 = 7$

5) $b^2 + 9b - 36 = 0$

10) $20q^2 + 88q = -84$



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The Quadratic Formula

Solve each equation with the quadratic formula.

1) $q^2 + 2q = 35$

$$q = \{ -7, 5 \}$$

6) $z^2 + 10z + 24 = 0$

$$z = \{ -4, -6 \}$$

2) $24b^2 + 4b - 2 = 6$

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

7) $15x^2 + 30x + 15 = 0$

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

3) $8m^2 + 56m + 66 = 0$

$$m = \left\{ \frac{-3}{2}, \frac{-11}{2} \right\}$$

8) $10w^2 + 54w = -20$

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

4) $z^2 - 4z - 30 = 2$

$$z = \{ -4, 8 \}$$

9) $18q^2 - 45q - 101 = 7$

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

5) $b^2 + 9b - 36 = 0$

$$b = \{ -12, 3 \}$$

10) $20q^2 + 88q = -84$

$$q = \left\{ \frac{-7}{5}, -3 \right\}$$

