

Name : _____ Score : _____

Teacher : _____ Date : _____

Solve Quadratics by Factoring

Find all possible values of the given variable.

1) $(3x - 3)(2x - 6) = 0$

6) $(3z - 2)(4z + 12) = 0$

2) $y^2 + 11y = 0$

7) $b^2 - b = 56$

3) $s^2 + 7s = 60$

8) $h^2 + 15h + 54 = 0$

4) $k^2 - 10k - 0 = 24$

9) $n^2 - 11n - 2 = 10$

5) $q^2 + 6q + 30 = 30$

10) $x^2 + 2x - 80 = 0$

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Solve Quadratics by Factoring

Find all possible values of the given variable.

1) $(3x - 3)(2x - 6) = 0$

$$x = \{ 1, 3 \}$$

6) $(3z - 2)(4z + 12) = 0$

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

2) $y^2 + 11y = 0$

$$y = \{ 0, -11 \}$$

7) $b^2 - b = 56$

$$b = \{-7, 8\}$$

3) $s^2 + 7s = 60$

$$s = \{-12, 5\}$$

8) $h^2 + 15h + 54 = 0$

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

4) $k^2 - 10k - 0 = 24$

$$k = \{12, -2\}$$

9) $n^2 - 11n - 2 = 10$

$$n = \{-1, 12\}$$

5) $q^2 + 6q + 30 = 30$

$$q = \{-6, 0\}$$

10) $x^2 + 2x - 80 = 0$

$$x = \{-10, 8\}$$