

Name : _____

Score : _____

Teacher : _____

Date : _____

The Quadratic Formula

Solve each equation with the quadratic formula.

1) $12x^2 - 86x + 110 = 0$

6) $r^2 - 6r + 8 = 0$

2) $12r^2 - 34r - 90 = 0$

7) $b^2 - b - 6 = 0$

3) $n^2 - 6n - 7 = 0$

8) $q^2 - 7q - 44 = 0$

4) $6d^2 + 21d + 9 = 0$

9) $6k^2 + 49k + 88 = 0$

5) $d^2 + 5d - 84 = 0$

10) $8x^2 - 8x - 6 = 0$



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Solve each equation with the quadratic formula.

1) $12x^2 - 86x + 110 = 0$

$$x = \left\{ \frac{11}{2}, \frac{5}{3} \right\}$$

6) $r^2 - 6r + 8 = 0$

$$r = \{ 2, 4 \}$$

2) $12r^2 - 34r - 90 = 0$

$$r = \left\{ \frac{9}{2}, \frac{-5}{3} \right\}$$

7) $b^2 - b - 6 = 0$

$$b = \{ 3, -2 \}$$

3) $n^2 - 6n - 7 = 0$

$$n = \{ 7, -1 \}$$

8) $q^2 - 7q - 44 = 0$

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

4) $6d^2 + 21d + 9 = 0$

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

9) $6k^2 + 49k + 88 = 0$

$$k = \left\{ \frac{-8}{3}, \frac{-11}{2} \right\}$$

5) $d^2 + 5d - 84 = 0$

$$d = \{ 7, -12 \}$$

10) $8x^2 - 8x - 6 = 0$

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

