



Quadratic Formula

Name _____

Score _____

SQ:14

Solve each equation by using quadratic formula.

1) $8k^2 - 2k - 3 = 0$

2) $5p^2 + 6p + 1 = 0$

3) $9x^2 + 16 = 0$

4) $2m^2 - 9m = 3$

5) $v^2 - 15v + 60 = 4$

6) $16y^2 + 16y + 3 = 0$

7) $3n^2 - 11n + 4 = 0$

8) $u^2 - 100 = 0$



Quadratic Formula

Answer key

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SQ:14

Solve each equation by using quadratic formula.

1) $8k^2 - 2k - 3 = 0$

$$k = -\frac{1}{2} \text{ and } k = \frac{3}{4}$$

2) $5p^2 + 6p + 1 = 0$

$$p = -1 \text{ and } p = -\frac{1}{5}$$

3) $9x^2 + 16 = 0$

$$x = \pm \frac{4}{3}i$$

4) $2m^2 - 9m = 3$

$$m = \frac{-9 \pm \sqrt{105}}{4}$$

5) $v^2 - 15v + 60 = 4$

$$v = 7 \text{ and } v = 8$$

6) $16y^2 + 16y + 3 = 0$

$$y = -\frac{1}{4} \text{ and } y = -\frac{3}{4}$$

7) $3n^2 - 11n + 4 = 0$

$$n = \frac{-11 \pm \sqrt{73}}{6}$$

8) $u^2 - 100 = 0$

$$u = \pm 10$$