

Name: _____

Solving Quadratic Equations

By quadratic formula.

① $11x^2 + 4x + 12 = 0$

② $3k^2 - 3k - 126 = 0$

③ $6q^2 - 5q - 4 = 7$

④ $7w^2 - 16 = 6$

⑤ $x^2 - 2x - 48 = 0$

⑥ $11k^2 + 4k - 52 = 10k^2 - 7$

⑦ $2m^2 + 2m - 12 = 0$

⑧ $4b^2 + 8b + 7 = 4$

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Solving Quadratic Equations

Answers

① $11x^2 + 4x + 12 = 0$

$$\left\{ \frac{-2 + 8i\sqrt{2}}{11}, \frac{-2 - 8i\sqrt{2}}{11} \right\}$$

② $3k^2 - 3k - 126 = 0$

$$\{7, -6\}$$

③ $6q^2 - 5q - 4 = 7$

$$\left\{ \frac{11}{6}, -1 \right\}$$

④ $7w^2 - 16 = 6$

$$\left\{ \frac{\sqrt{154}}{7}, \frac{-\sqrt{154}}{7} \right\}$$

⑤ $x^2 - 2x - 48 = 0$

$$\{8, -6\}$$

⑥ $11k^2 + 4k - 52 = 10k^2 - 7$

$$\{5, -9\}$$

⑦ $2m^2 + 2m - 12 = 0$

$$\left\{ \frac{-2 + 10}{4}, \frac{-2 - 10}{4} \right\}$$

⑧ $4b^2 + 8b + 7 = 4$

$$\left\{ -\frac{1}{4}, -\frac{7}{4} \right\}$$
