

Name: _____

Solving Quadratic Equation

Using Quadratic Formula

1. $25x^2 - 3x - 11 = 0$

2. $x^2 + 12x + 35 = 0$

3. $3q^2 + 12q + 9 = 0$

4. $3p^2 + 16p + 5 = 0$

5. $2x^2 - 4x - 3 = 0$

6. $5s^2 + 19s = 35 + 92 - 3s^2$

7. $5x^2 + 50x + 125 = 0$

8. $y^2 - 3y = -7 - 10y$

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Solving Quadratic Equation

Answers

1. $25x^2 - 3x - 11 = 0$

$$\left\{ \frac{3 + 2\sqrt{5}}{5} \right\}, \left\{ \frac{3 - 2\sqrt{5}}{5} \right\}$$

2. $x^2 + 12x + 35 = 0$

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

3. $3q^2 + 12q + 9 = 0$

$$\{-1, -3\}$$

4. $3p^2 + 16p + 5 = 0$

$$\left\{ -\frac{1}{3}, -5 \right\}$$

5. $2x^2 - 4x - 3 = 0$

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

6. $5s^2 + 19s = 35 + 92 - 3s^2$

$$\left\{ \frac{-2 + 5\sqrt{2}}{2}, \frac{-2 - 5\sqrt{2}}{2} \right\}$$

7. $5x^2 + 50x + 125 = 0$

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

8. $y^2 - 3y = -7 - 10y$

$$\left\{ \frac{-7 + \sqrt{21}}{2}, \frac{-7 - \sqrt{21}}{2} \right\}$$