

Name: _____

Score: _____

Solving Quadratic Equations Practice

Solve the given equations by the appropriate method.

1. $3x^2 + 9x - 6 = 0$

2. $2y^2 - 36 = y$

3. $4g^2 - 5g - 51 = 0$

4. $2x^2 + 8x - 56 = 8$

5. $2x^2 + 20x - 52 = -4$

6. $x^2 - 18x - 56 = 7$

7. $(x - 10)^2 - 48 = 0$

8. $2x^2 + 8x + 77 = 0$

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Solving Quadratic Equations Practice

Answers

1. $3x^2 + 9x - 6 = 0$

$$\left\{ \frac{-3 + \sqrt{17}}{2}, \frac{-3 - \sqrt{17}}{2} \right\}$$

2. $2y^2 - 36 = y$

$$\left\{ \frac{9}{2}, -4 \right\}$$

3. $4g^2 - 5g - 51 = 0$

$$\left\{ \frac{17}{4}, -3 \right\}$$

4. $2x^2 + 8x - 56 = 8$

$$\{4, -8\}$$

5. $2x^2 + 20x - 52 = -4$

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

6. $x^2 - 18x - 56 = 7$

$$\{21, -3\}$$

7. $(x - 10)^2 - 48 = 0$

$$\{10 + 4\sqrt{3}, 10 - 4\sqrt{3}\}$$

8. $2x^2 + 8x + 77 = 0$

$$\left\{ \frac{-4 + i\sqrt{138}}{2}, \frac{-4 - i\sqrt{138}}{2} \right\}$$
