

Quadratic Equations Worksheets

1. Solving by Factoring

- Solve the following equations by factoring:
 - $x^2 - 5x + 6 = 0$
 - $2x^2 + 7x + 3 = 0$
- Answers: $x = 2, 3$; $x = -3, -1/2$

2. Solving using the Quadratic Formula

- Solve the following equations using the quadratic formula:
 - $x^2 + 4x - 5 = 0$
 - $3x^2 - 2x - 7 = 0$
- Answers: $x = 1, -5$; $x = (1 \pm \sqrt{22})/3$

3. Using the Discriminant

- Determine the number of real solutions for each equation:
 - $x^2 + 6x + 9 = 0$
 - $2x^2 - 3x + 4 = 0$
- Answers: One real solution; No real solutions