

Quadratic Equations Quiz

Name: _____

Date: _____

Problems

1. Solve for x : $x^2 = 9$.

2. Solve: $x^2 - 16 = 0$.

3. Solve: $x^2 - 5x = 0$.

4. Factor to solve: $x^2 - 7x + 12 = 0$.

5. Solve: $2x^2 - 8 = 0$.

6. Solve using factoring: $x^2 + 6x + 5 = 0$.

7. Solve using quadratic formula: $x^2 - 3x - 10 = 0$.

8. Solve: $2x^2 + x - 3 = 0$.

9. Solve: $3x^2 - 10x + 7 = 0$.

10. Solve: $x^2 - 4x + 7 = 0$.

Answer Key

1. $x = \pm 3$
2. $x = \pm 4$
3. $x(x - 5) = 0 \Rightarrow x = 0, 5$
4. $(x - 3)(x - 4) = 0 \Rightarrow x = 3, 4$
5. $2x^2 = 8 \Rightarrow x^2 = 4 \Rightarrow x = \pm 2$
6. $(x + 1)(x + 5) = 0 \Rightarrow x = -1, -5$
7. $x = 5, -2$
8. $x = 1, -\frac{3}{2}$
9. $x = 2, \frac{7}{3}$
10. $x = 2 \pm i\sqrt{3}$