

Unit 8: Quadratic Equations

CONCEPT

Name: _____ Date: _____

Solve each quadratic equation. Give all solutions (real values of x), separated by commas.

1. Solve for x : $x^2 = 49$

Answer: _____

2. Solve for x : $x^2 = 16$

Answer: _____

3. Solve for x by factoring: $x(x - 5) = 0$

Answer: _____

4. Solve for x by factoring: $(x - 3)(x + 2) = 0$

Answer: _____

5. Solve for x : $x^2 - 9 = 0$

Answer: _____

6. Solve for x by factoring: $x^2 + 6x = 0$

Answer: _____

7. Solve for x : $x^2 - 5x + 6 = 0$

Answer: _____

8. Solve for x by factoring: $(x + 4)(x - 4) = 0$

Answer: _____

9. Solve for x : $(x - 2)^2 = 0$

Answer: _____

10. For the equation $x^2 + 7x + 12 = 0$, use the quadratic formula. First find the value of the discriminant $b^2 - 4ac$.

Answer: _____

11. Solve for x : $x^2 - 1 = 0$

Answer: _____

12. Solve for x : $x^2 = 100$

Answer: _____