

Test Title: Quad eqn

Description: quad eqn

Due Date: 45454

Date: Friday, October 24, 2025

1. Objective: What is the standard form of a quadratic equation?

- a) $ax + b = 0$
- b) $ax^2 + bx + c = 0$ where $a \neq 0$
- c) $ax^3 + bx^2 + c = 0$
- d) $a + bx = 0$

2. Objective: Find the roots of the quadratic equation $x^2 - 5x + 6 = 0$.

- a) 2 and 3
- b) -2 and -3
- c) 1 and 6
- d) -1 and -6

3. Short Answer: Write the quadratic equation in standard form for the expression:

$$4x^2 - 7 = 3x + 5$$

4. Short Answer: Solve for x :

$$x^2 + 4x = 0$$

5. Objective: Which of the following statements about quadratic equations is true?

- a) A quadratic equation always has two distinct real roots.
- b) The graph of a quadratic equation is a straight line.
- c) The coefficient of x^2 cannot be zero.
- d) A quadratic equation can only have one root.

This test mixes objective-type questions for concept recognition and short-answer questions for problem-solving skills, suitable for Class 9A at a medium difficulty level on the topic of quadratic equations[1][2][5].