Date 29-9-2026 | Subject: MATH | Grade 12 GEN | Mr Rachid.K

Lesson Title: Lesson 1-5

Quadratic Functions

Outcomes

- Solve Quadratic equations by Using the Quadratic Formula and the Discriminant

Today's Vocabulary

Perfect square - Discriminant

Evaluation Choose the one correct answer for each question

Question 1

What is the vertex form of the function $y = x^2 + 12x + 9$?

A) $y = (x + 6)^2 - 27$

B) $y = (x + 6)^2 + 9$

C) $y = (x - 6)^2 - 27$

D) $y = (x + 12)^2 - 135$

Question 2

For the function $y = -x^2 - 6x + 2$, which statement is correct?

A) Axis of symmetry x = 3, vertex (3, 11), and it has a maximum.

B) Axis of symmetry x = −3, vertex (−3, 11), and it has a maximum.

C) Axis of symmetry x = −3, vertex (−3, 11), and it has a minimum.

D) Axis of symmetry x = −3, vertex (−3, 7), and it has a maximum.