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General Questions

Practice Questions

Q1. What are the roots of the quadratic equation x^2 + 4x + 4 = 0?

A. x = -2, -2
B. x = 2, 2
C. x = -4, 0
D. x = 0, 4

Solution: Step 1: Factor the equation: (x + 2)(x + 2) = 0. Step 2: Set the factor to zero: x + 2 = 0. Step 3: Solution is x = -2 (double root).

Q2. Which of the following inequalities represents the solution to 2x + 3 > 7?

A. x > 2
B. x < 2
C. x > 3
D. x < 3

Solution: Step 1: Subtract 3 from both sides: 2x > 4. Step 2: Divide by 2: x > 2.

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