PLANIT TEACHERS

Student Name: _____	**Class:** _____
Student ID: _____	**Date:** {{DATE}}

Assessment Details

Duration: 45 minutes	**Total Marks:** 100
Topics Covered:	• Basic Algebraic Concepts • Application of Mathematical Operations • Solving Linear Equations

Instructions to Students:

1. Read all questions carefully before attempting.
2. Show all working out - marks are awarded for method.
3. Calculator use is permitted except where stated otherwise.
4. Write your answers in the spaces provided.
5. If you need more space, use the additional pages at the end.
6. Time management is crucial - allocate approximately 1 minute per mark.

Section A: Multiple Choice [20 marks]

Question 1 [2 marks]

Simplify the expression: 2x + 5 - 3x

A) -x + 5

B) x + 5

C) -x - 5

D) x - 5

Question 2 [2 marks]

Solve the equation: x + 2 = 7

A) x = 5

B) x = 9

C) x = 3

D) x = 1

Question 3 [2 marks]

Graph the equation: y = 2x - 1

A) Line with a positive slope

B) Line with a negative slope

C) Horizontal line

D) Vertical line

Question 4 [2 marks]

Simplify the expression: 3(2x - 1)

A) 6x - 3

B) 6x + 3

C) 5x - 2

D) 5x + 2

Question 5 [2 marks]

Solve the equation: 2x - 3 = 11

A) x = 7

B) x = 5

C) x = 3

D) x = 1

Question 6 [8 marks]

Solve the equation: 2x + 5 = 11

Question 7 [8 marks]

Simplify the expression: 3x - 2 + 2x

Question 8 [8 marks]

Identify the slope of the equation: y = 2x - 1

Question 9 [8 marks]

Solve the equation: x - 3 = 7

Question 10 [8 marks]

Simplify the expression: x + 2 + x - 1

Section C: Essay Question [40 marks]

Question 11 **[40 marks]**

Solve the equation: $2x + 3 = 9$ and explain your reasoning. Use algebraic concepts to model a real-world problem.

Additional Space for Answers

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