KWAZULU-NATAL PROVINCE

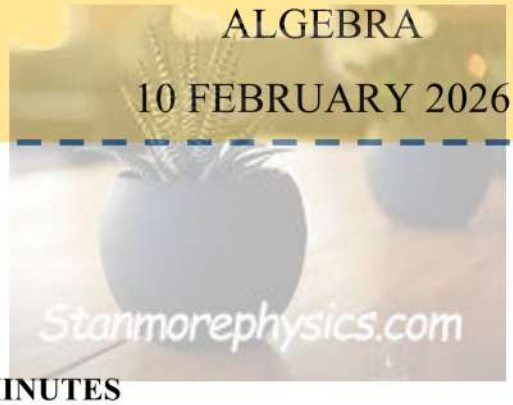
EDUCATION
REPUBLIC OF SOUTH AFRICA

INFORMAL TASK

MATHEMATICS

ALGEBRA

10 FEBRUARY 2026



MARKS : 25

TIME : 30 MINUTES

Instructions:

1. Answer all questions.
2. Show all working.
3. Write neatly and clearly.
4. Calculators are not allowed.

QUESTION 1

1.1. Simplify the following

1.1.1. $3x + 5x - 2$ (2)

1.1.2. $-4(-2x-3)^2$ (3)

1.1.3. $\dfrac{x^3-8}{2-x}$ (4)

1.2. Factorise the following.

1.2.1. $6x + 12$ (2)

1.2.2. $x^2 + 7x + 10$ (2)

1.2.3. $ax + 3a + 2x + 6$ (3)

QUESTION 2

2.1. Solve for the unknown variable

2.1.1. $5x - 7 = 18$ (2)

2.1.2. $3(y-4) = 2y + 5$ (3)

QUESTION 3

The sum of three consecutive integers is 72.

3.1. Write an algebraic expression to represent the three integers. (2)

3.2. Hence, determine the value of each integer. (2)

TOTAL: 25 MARKS

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MEMORANDUM

MARKS : 25

QUESTION 1		
1.1.1.	$3x + 5x - 2$ $= 8x - 2$	✓ $8x$ ✓ -2
1.1.2.	$-4(-2x-3)^2$ $= -4(-2x-3)(-2x-3)$ $= -4(4x^2 + 6x + 6x + 9)$ $= -4(4x^2 + 12x + 9)$ $= -16x^2 - 48x - 36$	✓ $-4(-2x-3)(-2x-3)$ ✓ $-4(4x^2 + 12x + 9)$ ✓ $-16x^2 - 48x - 36$
1.1.3.	$\frac{x^3-8}{2-x}$ $= \frac{x^3-8}{+(2-x)}$ $= \frac{(x-2)(x^2+2x+4)}{-(x-2)}$ $= -(x^2+2x+4)$ $= -x^2 - 2x - 4$	✓ $(x-2)(x^2+2x+4)$ ✓ $-(x-2)$ ✓ $-(x^2+2x+4)$ ✓ $-x^2-2x-4$
1.2.		
1.2.1.	$6x + 12$ $= 6(x + 2)$	✓ 6 ✓ $x + 2$
1.2.2.	$x^2 + 7x + 10$ $= (x + 5)(x + 2)$	✓ $(x + 5)$ ✓ $(x + 2)$
1.2.3.	$ax + 3a + 2x + 6$ $= (ax + 3a) + (+2x + 6)$ $= (ax + 3a) + (2x + 6)$ $= a(x + 3) + 2(x + 3)$ $= (x + 3)(a + 2)$	✓ $(ax + 3a) + (2x + 6)$ ✓ $a(x + 3) + 2(x + 3)$ ✓ $(x + 3)(a + 2)$
QUESTION 2		
2.1.		
2.1.1.	$5x - 7 = 18$ $5x = 25$ $x = 5$	✓ $5x = 25$ ✓ $x = 5$
2.1.2.	$3(y - 4) = 2y + 5$ $3y - 12 = 2y + 5$ $y = 17$	✓ $3y - 12 = 2y + 5$ ✓ Simplification ✓ $y = 17$

QUESTION 3		
3.1.	x, x + 1, x + 2	✓ ✓ x, x + 1, x + 2
3.2.	x + (x + 1) + (x + 2) = 72 x = 23 Integers: 23, 24, 25	✓ x + (x + 1) + (x + 2) = 72 x = 23 ✓ Integers: 23, 24, 25
		TOTAL: 25 MARKS