

## Mathematics N3 Assignment

Total: 100 Marks

Instructions: Show all working. Simplify all answers where applicable. Use correct mathematical notation.

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### SECTION A: Factorisation (15 Marks)

1. Factorise the following expressions completely:

a)  $6x^2 - 13x + 6$  (3)

b)  $x^3 - 8$  (3)

c)  $3x^2y - 12xy^2 + 9y^3$  (3)

d)  $x^4 - 16$  (3)

e)  $x^2 + 7x + 10$  (3)

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### SECTION B: Multiplication and Division of Algebraic Fractions (15 Marks)

2. Simplify the following expressions:

a)  $\frac{3x^2}{x^2-9} \times \frac{x+3}{x-3}$  (4)

b)  $\frac{x^2-9}{x^2-4} \div \frac{x-2}{x+2}$  (4)

c)  $\frac{x^2-4x-1}{x^2+3x+2} \times \frac{x}{x-1}$  (4)

d) State any restrictions for x in one of the above answers. (3)

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# N3 Exemplar Mathematics

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