

Ge. 11

Technical Mathematics - Paper 1

Formal test - Term 2

Total: 100 points Time: 2 hours

Learner's name: _______ Gr. 11: ______.

Instructions and information:

- This paper consists of two questions, answer both questions.
- The use of a calculator is not permitted.
- . No Tip Ex may be used.
- Show all the steps needed to arrive at the answer.
- Strengthill

Content govered in this paper

- Albebra and logarithms
- Solve equations and applications
- Function analysis
- Rational functions
- Circle and hyperbola

QUESTION 1

1.1 Simplified, the complete WITHOUT the use of a calculator.

1.13
$$(\sqrt{1}-1)(\sqrt{1}-1)$$
 (3)

- 1.3 Consider binary numbers T = 100000, andT = 111;
 - 1.3.1 Write X and Y in decimal form. (2)
 - 1.32 Next, determine (X Y) in binary form. (2

[25]

QUESTION 2

2.1 Solve for x e.P. WITHOUT using a calculator.

2.2 Show that

$$5.2^{1-\alpha} + 2^{1-\alpha} = \frac{1}{2^{\alpha-1}}$$
 (5)

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