



ALEXANDER ROAD HIGH SCHOOL
MATHEMATICS – PAPER 1

NOVEMBER 2021
100 MARKS
2 HOURS

GRADE 10

EXAMINER: R. WEBER

INSTRUCTIONS:

1. This paper consists of 8 questions. All questions must be answered.
2. Clearly show ALL calculations you have used in determining your answers.
3. Answers must be rounded off, where appropriate, to 2 decimal places.
4. Calculators may be used, unless stated otherwise in a particular question.

QUESTION 1:

- 1.1 $\sqrt{33}$ lies between two integers. Determine, **without the use of a calculator**, between which two consecutive integers $\sqrt{33}$ lies. (2)
- 1.2 Convert the recurring decimal fraction $0.\dot{4}\dot{5}$ to a common fraction in its simplest form. (3)
- [5]**

QUESTION 2:

- 2.1 Simplify the following expressions fully:

2.1.1 $(m - 2p)(m^2 - 4mp + \frac{2}{3}p^2)$ (3)

2.1.2 $\frac{5x^2+4x-1}{x^2+x+1} \div \frac{(5x-1)(x+1)}{x^2-1}$ (4)

2.1.3 $\frac{2}{(x-3)^2} + \frac{3}{9-x^2}$ (5)

2.1.4 $\frac{3^{x+3} - 7 \cdot 3^x}{3^{x-1}}$ (3)

- 2.2 Factorise the following expressions fully:

2.2.1 $4x^2 - 12x + 5$ (2)

2.2.2 $k^2 - 6ky + 4k - 24y$ (3)

- 2.3 Determine the value of $(3p + q)^2$ if $9p^2 + q^2 = 12$ and $pq = -3$. (3)

[23]

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