



GAUTENG PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

GAUTENG DEPARTMENT OF EDUCATION
PREPARATORY EXAMINATION
2021

10611

MATHEMATICS

PAPER 1

MATHEMATICS
(Paper 1)

10611/21

3

QUESTION 1

GET TOTAL

1.1 Solve for x :

1.1.1 $3x^2 - 4x = 0$

(2)

1.1.2 $3x^2 + 10x - 4 = 0$ (Correct to TWO decimal places)

(1)

1.1.3 $13x - 4 = 9x^2$

(1)

1.1.4 $\sqrt{x^2 + 5} = 2\sqrt{x}$

(1)

1.2 Given: $(3x - y)^2 + (x - 5)^2 = 0$
Solve for x and y .

(1)

1.3 Given: $x - 2 = \frac{-4}{x - 2} + 4$

If $y = x - 2$

1.3.1 Show that the given equation can be expressed as: $y^2 + 4y + 4 = 0$.

(2)

1.3.2 Hence, show that the equation has real and equal roots.

(2)

1.4 Calculate the maximum value of h if: $h = \frac{6}{x^2 + 2}$

(2)

[21]

TIME: 3 hours

MARKS: 150

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