



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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**D Kirk**



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