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REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS  
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MATHEMATICS P1

MAY/JUNE 2023

MARKS: 100

TIME: 1 hour



## QUESTION 1

1.1 Solve for  $x$ .

1.1.1  $x^2 + 3x + 10 = 0$

1.1.2  $3x^2 + 5x + 1 = 0$  (answer in TWO decimal places)

1.1.3  $3^{2x} + 2^x = 0,004$

1.1.4  $6x + 0,04x + 1 = 0$

1.1.5  $x = \sqrt{4x + 3} + 1$

1.2 A rectangle having sides of  $(x + 2)$  metres and  $(x + 3)$  metres has a perimeter of 24 metres and an area of 10 square metres. Calculate the values of  $x$  and  $y$ .

1.3 Show that  $\frac{1}{2}(x^m + x^n)^2 - \frac{1}{2}(x^m - x^n)^2$  is divisible by 2 for all real values of  $m$  and  $n$ .

# Maths Paper 1 Grade 12 June 2011

**Guillaume Favre**



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