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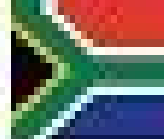
SENIOR CERTIFICATE EXAMINATIONS
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MATHEMATICS P1

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 .

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