



PREPARATORY EXAMINATION
2022

2022
MATHEMATICS
PAPER 1

TIME: 2 hours

MARKS: 100

MA/2022/MAT/CS, Paper 1



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10 pages + 1 Information Sheet

X05



MATHEMATICS Paper 1	2022/22	1
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QUESTION 1

1.1 Solve for x .

1.1.1 $3x^2 + 5x + 2 = 0$ (10)

1.1.2 $x + 6 = \frac{1}{x} + 2$, $x \neq 0$ (answer in TWO decimal places) (10)

1.1.3 $x^2 + 3x + 2 = 0$ (10)

1.1.4 $\sqrt{x+3} + 1 = \frac{2}{\sqrt{x+3}}$ (10)

1.2 Solve for x exactly.

$x + 3x + 2$ and $3x^2 + 5x + 2 = 0$ (10)

1.3 Given: $2^{x+1} + 2^y = 2^{x+2} + 2$, where x and y are integers.
Determine the value of x and y . (10)

1.4 The equations of two sides of $\triangle ABC$ are $x + y = 1$ and $2x + y = 3$.
Determine the value of $\tan A$ and $\tan B$. (10)

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






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