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3RD SCHOOL EXAMINATION 2022
ADDITIONAL MATHEMATICS PAPER 1 (3472/1)
2 hrs

Section A (64 marks):

Answer **ALL** the questions in this section:

1. Given $g(x) = \frac{ax+b}{cx+d}, x \neq k$

a) Express k in terms of c and d . Hence, find $g^{-1}(x)$. [3]

b) Using function $g^{-1}(x)$ obtained, determine $g^{-1}(x)$ for each of the following functions:

(i) $g(x) = \frac{7x-4}{2x-3}, x \neq \frac{3}{2}$

(ii) $g(x) = \frac{2x-3}{x-5}, x \neq 5$

[2]

c) If $c \neq 0$, what is the condition on a and d so that $g = g^{-1}$?

[1]

Answer :

2. Given that $\sqrt{m+n\sqrt{5}} = \frac{11}{4-\sqrt{5}}$, where m and n are constants. Without using a calculator, find the value of $m-n$. [5]

Answer:

3. a) Find the range of values of x which satisfy the inequalities $x < 1$ and $3x^2 < x^2 + 7x - 3$.

Add Math Paper Form 4

Bee Hoo Ong



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