

Subject – Math (Higher Level)
Topic - Functions and Equations
Year - Nov 2011 – Nov 2019
Paper -2

Question 1

[Maximum mark: 3]

Consider the graph of $y = x + \sin(x - 3)$, $-\pi \leq x \leq \pi$.

- (a) Sketch the graph, clearly labelling the x and y intercepts with their values. *[3 marks]*

Question 2

[Maximum mark: 7]

Given that $f(x) = \frac{1}{1 + e^{-x}}$.

- (a) find $f^{-1}(x)$, stating its domain. *[6 marks]*
- (b) find the value of x such that $f(x) = f^{-1}(x)$. *[1 mark]*

Question 3

[Maximum mark: 5]

Let $f(x) = \ln x$. The graph of f is transformed into the graph of the function g by a translation of $\begin{pmatrix} 3 \\ -2 \end{pmatrix}$, followed by a reflection in the x -axis. Find an expression for $g(x)$, giving your answer as a single logarithm.

Question 4

[Maximum mark: 5]

- (a) Sketch the curve $y = \frac{\cos x}{\sqrt{x^2 + 1}}$, $-4 \leq x \leq 4$ showing clearly the coordinates of the x -intercepts, any maximum points and any minimum points. *[4 marks]*

Question 5

[Maximum mark: 4]

Show that the quadratic equation $x^2 - (5 - k)x - (k + 2) = 0$ has two distinct real roots for all real values of k .

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