

MEI Core 3

Functions / Natural logarithms and exponentials

Chapter Assessment

1. The functions f , g and h are defined as follows:

$$f(x) = e^x \quad x \in \mathbb{R}$$

$$g(x) = \sqrt{x} \quad x \geq 0$$

$$h(x) = 2x + 1 \quad x \in \mathbb{R}$$

Find each of the following functions, giving the domain and range of each.

- (i) $f \circ g(x)$ (ii) $g \circ h(x)$ (iii) $h \circ f(x)$ [9]
 (iv) $f^{-1}(x)$ (v) $h^{-1}(x)$ [6]

2. (i) Show algebraically that the function $f(x) = \frac{x - x^3}{1 + x^2}$ is odd. [3]
 (ii) Explain what this tells you about the graph of $y = f(x)$. [1]

3. (i) Sketch the graph of $y = |2x + 1|$. [2]

(ii) Hence, or otherwise, solve each of the following equations:

(a) $|2x + 1| = 3 - x$ [3]

(b) $|2x + 1| = 3x - 2$ [3]

4. Solve the equations

(i) $2e^x = 3e^{-x} + 5$ [3]

(ii) $\ln(2x + 1) = \ln x + 2$ [3]

giving your answers in exact form.

5. The diagram below shows the graph $y = f(x)$, where $f(x) = \frac{x-1}{x}$ for $x \geq 0$.

The graph approaches the line $y = 1$ as x becomes very large.



- (i) Write down the domain and range of $f(x)$. [2]
 (ii) Find the inverse function $f^{-1}(x)$. [3]
 (iii) Write down the domain and range of $f^{-1}(x)$. [2]
 (iv) Sketch the graph of $y = f^{-1}(x)$ for the domain you gave in (iii). [2]
 (v) What is the relationship between the graph of $y = f(x)$ and the graph of $y = f^{-1}(x)$? [1]

Mei Core 3 Natural Logarithms And Exponentials

Daniel F McAuley



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