Functions / Natural logarithms and exponentials

Chapter Assessment

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

$$f(x) = e^x$$
 $x \in \square$
 $g(x) = \sqrt{x}$ $x \ge 0$
 $h(x) = 2x + 1$ $x \in \square$

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

- (i) fg(x)(iv) f³(x)
- (ii) gh(x)(v) h⁻¹(x)

(iii) hf(x)

[9] [6]

131

[1]

[2]

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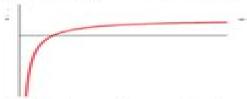
[3]

- 2. (i) Show algebraically that the function $f(x) = \frac{x x^3}{1 + x^2}$ is odd.
 - (ii) Explain what this tells you about the graph of y = f(x).
- (i) Sketch the graph of y = |2x+1|.
 - (ii) Hence, or otherwise, solve each of the following equations:
 - (a) |2x+1| = 3-x
 - (b) |2x+1| = 3x-2

[3]

- 4. Solve the equations
 - (i) $2e^x = 3e^{-x} + 5$
 - (ii) $\ln(2x+1) = \ln x + 2$
 - giving your answers in exact form.
- The diagram below shows the graph y = f(x), where f(x) = x-1/x for x ≥ 0.

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



- Write down the domain and range of f(x).
- (ii) Find the inverse function f¹(x).[3]
- (iii) Write down the domain and range of $f^{-1}(x)$. [2]
- (iv) Sketch the graph of y = f¹(x) for the domain you gave in (iii).
 (v) What is the relationship between the graph of y = f(x) and the graph of
- (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

Daniela Niemeyer

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