MEI Core 3

Functions / Natural logarithms and exponentials

Chapter Assessment

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

    $$f(x) = e^x \qquad x \in \mathbb{R}$$
    $$g(x) = \sqrt{x} \qquad x \geq 0$$
    $$h(x) = 2x + 1 \qquad x \in \mathbb{R}$$

    Find each of the following functions, giving the domain and range of each.
    (i)   fg(x)   (ii) gh(x)   (iii) hf(x)   [9]
    (iv) f^{-1}(x)   (v) h^{-1}(x)   [6]

2. (i)   Show algebraically that the function $f(x) = \dfrac{x - x^3}{1 + x^2}$ 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 $f(x) = \dfrac{x - 1}{x}$ 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

David S. Kahn

Mei Core 3 Natural Logarithms And Exponentials:

   Geotitles ,1989   *United States Political Science Documents* ,1978   *Science Citation Index* ,1992 Vols for 1964 have guides and journal lists   **Exponential and Logarithmic Functions** Kenneth F. Klopfenstein,2003   <u>Logarithms and Exponentials Essential Skills Practice Workbook with Answers</u> Chris McMullen,2020-07-27 Master essential logarithm and exponential skills through helpful explanations instructive examples and plenty of practice exercises with answers Authored by experienced teacher Chris McMullen Ph D this self study math workbook covers logarithms of various bases and natural logarithms the change of base formula logarithm rules like the sum and difference formulas exponential functions hyperbolic functions and their inverses graphs of logarithms exponentials and hyperbolic functions a concise review of exponents in the first chapter Euler s number applications such as population growth continuously compounded interest and radioactive nuclear decays an introduction to complex numbers in the last chapter an optional chapter covering the calculus of logarithms exponentials and hyperbolic functions The author Chris McMullen Ph D has over twenty years of experience teaching math skills to physics students He prepared this workbook of the Improve Your Math Fluency series to share his strategies for working with logarithms and exponentials   **Attacking Problems in Logarithms and Exponential Functions** David S. Kahn,2015-10-21 Concise review of what high school and beginning college students need to know to solve problems in logarithms and exponential functions Presents rigorously tested examples and coherent explanations in an easy to follow format 2015 edition   **Exponential and Logarithmic Functions** Kenneth F. Klopfenstein,2000-01-01   **A Primer on Logarithms** S. Shirali,2002-08   *10 Place Logarithms* Georg Freiherr von Vega,1958   **Table of Natural Logarithms ...** Project for the Computation of Mathematical Tables (U.S.),United States. National Bureau of Standards. Computation Laboratory,1941

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Mei Core 3 Natural Logarithms And Exponentials** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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