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**MULUNGUSHI UNIVERSITY**  
**SCHOOL OF NATURAL AND APPLIED SCIENCES**  
**DEPARTMENT OF MATHEMATICS AND STATISTICS**

**EGM 211 - ENGINEERING MATHEMATICS I**

**Assignment 1**

**DUE DATE:** 7<sup>th</sup> November, 2024

**DUE TIME:** 11 : 00 AM

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- Q 1.** For a hyperbola  $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$  centered at  $(0,0)$ , show that at some point  $(x_0, y_0)$ , the equation of tangent line is  $\frac{x_0 x}{a^2} - \frac{y_0 y}{b^2} = 1$ .
- Q 2.** (i) Evaluate

$$\lim_{x \rightarrow 0} \frac{\arctan 2x}{\arctan 3x} - \lim_{x \rightarrow \infty} \frac{\arctan 2x}{\arctan 3x} + \lim_{x \rightarrow 0} \left( \frac{1}{x} - \frac{1}{e^x - 1} \right) + \lim_{x \rightarrow 1^+} (x-1)^{\ln x}$$

- (ii) Consider a long thin rod with heat diffusivity  $k$  and coinciding with the  $x$ -axis. Suppose that at time  $t = 0$  the temperature at  $x$  is  $A/2\varepsilon$  if  $-\varepsilon \leq x \leq \varepsilon$  and is zero if  $|x| > \varepsilon$ . Then it turns out that the temperature  $T(x, t)$  of the rod at the point  $x$  at time  $t > 0$  is given by

$$T(x, t) = \frac{A}{\varepsilon \sqrt{4\pi kt}} \int_0^\varepsilon \exp\left(-\frac{(x-u)^2}{4kt}\right) du.$$

Use L'Hôpital's rule to show that the temperature resulting from an initial "hot spot" at the origin is

$$\lim_{t \rightarrow 0} T(x, t) = \frac{A}{\sqrt{4\pi kt}} \exp\left(-\frac{x^2}{4kt}\right).$$

- (iii) Explain why

$$\lim_{x \rightarrow 0^+} (\ln x)^{1/x} \neq 0$$

- (iv) Let  $\alpha$  be a fixed real number.

(a) Evaluate (in terms of  $\alpha$ ) the  $0^0$  indeterminate form

$$\lim_{x \rightarrow 0} \left[ \exp\left(-\frac{1}{x^2}\right) \right]^{\alpha x^2}$$

(Note that L'Hôpital's rule is not needed.) Thus the indeterminate form  $0^0$  may have as its limit any positive real number. Explain why.

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## **Table of Contents Methematics Paper2014 Leaked**

1. Understanding the eBook Methematics Paper2014 Leaked
  - The Rise of Digital Reading Methematics Paper2014 Leaked
  - Advantages of eBooks Over Traditional Books
2. Identifying Methematics Paper2014 Leaked
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Methematics Paper2014 Leaked
  - User-Friendly Interface
4. Exploring eBook Recommendations from Methematics Paper2014 Leaked
  - Personalized Recommendations
  - Methematics Paper2014 Leaked User Reviews and Ratings
  - Methematics Paper2014 Leaked and Bestseller Lists
5. Accessing Methematics Paper2014 Leaked Free and Paid eBooks
  - Methematics Paper2014 Leaked Public Domain eBooks
  - Methematics Paper2014 Leaked eBook Subscription Services
  - Methematics Paper2014 Leaked Budget-Friendly Options
6. Navigating Methematics Paper2014 Leaked eBook Formats

- ePub, PDF, MOBI, and More
  - Mathematics Paper2014 Leaked Compatibility with Devices
  - Mathematics Paper2014 Leaked Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Mathematics Paper2014 Leaked
    - Highlighting and Note-Taking Mathematics Paper2014 Leaked
    - Interactive Elements Mathematics Paper2014 Leaked
  8. Staying Engaged with Mathematics Paper2014 Leaked
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Mathematics Paper2014 Leaked
  9. Balancing eBooks and Physical Books Mathematics Paper2014 Leaked
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Mathematics Paper2014 Leaked
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Mathematics Paper2014 Leaked
    - Setting Reading Goals Mathematics Paper2014 Leaked
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Mathematics Paper2014 Leaked
    - Fact-Checking eBook Content of Mathematics Paper2014 Leaked
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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