MULUNGUSHI UNIVERSITY

SCHOOL OF NATURAL AND APPLIED SCIENCES

DEPARTMENT OF MATHEMATICS AND STATISTICS

EGM 211 - ENGINEERING MATHEMATICS I

Assignment 1 **DUE DATE:** 7th November, 2024 **DUE TIME:** 11 : 00 AM

Q 1. For a hyperbola $\frac{y^2}{a^2} - \frac{x^2}{b^2} = 1$ centered at (0,0), show that at some point (x_o, y_o), the equation of tangent line is $\frac{xx_o}{a^2} - \frac{yy_o}{b^2} = 1$.

Q 2. **(i)** Evaluate

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

(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 $-\varepsilon \leqq x \leqq \varepsilon$ 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

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

(iii) Explain why

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

(iv) Let α be a fixed real number.

(a) Evaluate (in terms of α) the 0^0 indeterminate form

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

(Note that l'Hpital'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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