

Home Assignment

Mathematics (M)

BA 4th sem.

Marks 20, paper 404

1. State D'Alemberts ratio test and apply it in any sum(your choice). 5

2. Define open and closed set and give example of both types of sets. 5

3. State and prove Lagrange's mean value theorem, verify it for $f(x)=x^2$, $a=1$, and $b=2$. 6

4. Using L Hospital theorem find the limit of $(\sin x \cdot \log x)$ at x tends to 0. 4

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