

MTH 207 REAL ANALYSIS I: (3 Units) (L30 P 0: T 15)

Pre-requisite -MTH 101, 103

Bounds of real numbers, convergence of sequence of numbers. Monotone sequences, the theorem of nested Intervals. Cauchy sequences, tests for convergence of series. Absolute and conditional convergence of series and rearrangements. Completeness of real and incompleteness of rational. Continuity/and differentiability of functions $\mathbb{R} \rightarrow \mathbb{R}$. Rolle's and mean value theorems for differentiable functions Taylor series.