

Analysis-1

Upon successful completion of this course, students will be able to:

1. Define and explain the Algebraic and Order Properties of Real numbers in the context of solving mathematical problems.

(Recall)

2. Apply the Archimedean Property to establish relationships between real numbers and understand their properties.

(Application)

3. Describe and utilize the concept of Density of Rational numbers to evaluate limits and analyze sequences of real numbers.

(Comprehension)

4. Analyze and determine the convergence or divergence of sequences of real numbers using Divergence criteria and Monotone Subsequence Theorem.

(Analysis)

5. Evaluate the Convergence and Divergence of Infinite series using techniques such as Leibnitz test, Abel's and Dirichlet's test.

(Application)

6. Apply the sequential criterion for limits to establish the convergence or divergence of sequences and series.

(Evaluation)

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