

Study guide for quiz 03

Quiz problems include both the lecture contents and homework problems.

1. Section 10.4: Study The Comparison Test and The Limit Comparison Test. Focus on how to find a suitable target series to compare with. In almost all cases, the target series can be found from the geometric series, the p -series or series of the form $\sum_{n=1}^{\infty} f(n)$

where $\int_1^{\infty} f(x) dx$ is easy to compute.

2. Section 10.5: Study the Absolute Convergence Test, the Ratio Test and the Root Test. Practice each of these tests with some examples (such as section 10.4: problems 17-44).
3. Section 10.6: Study The statement and proof of the Alternating Series Test and the Alternating Series Estimation Theorem. Practice it with some examples.
4. Section 10.6: Memorize some examples of absolutely (conditionally) convergent series.
5. Section 10.6: Skip (ignore) the "Rearranging Series" part. It will not appear in any exams.