

Math 182-01
Outline of Convergence Strategies

1. At a glance, does the limit of the term go to zero? If not, then use divergence test.
2. Is the series exactly a p-series or a geometric series? If so, use appropriate check.
3. Does the series look like a p-series or a geometric series? If so, use one of the comparison tests.
4. If the series alternates, then use the alternating series test.
5. If the series contains factorials and/or products involving powers, then ratio test is a good candidate.
6. If the series is a (function of n) raised to the n th power, then root test is a good candidate.
7. When all else fails, try integral test.

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