

Series convergence tests pdf

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Alternating series arises naturally in many common situations, including evaluations of Taylor series at negative arguments. They furnish simple examples of conditionally convergent series as well. There is a special test for alternating series that detects conditional convergence: Alternating series test: If a_n is a decreasing sequence of positive integers such that $\lim_{n \rightarrow \infty} a_n = 0$ and $\sum_{n=1}^{\infty} |a_n|$ converges, then the alternating series $\sum_{n=1}^{\infty} (-1)^{n-1} a_n$ converges. If $a_n = \frac{1}{n}$, the test immediately shows that the alternating harmonic series $\sum_{n=1}^{\infty} (-1)^{n-1} \frac{1}{n}$ is (conditionally) convergent. Note that it is enough for the a_n to be eventually decreasing ((i.e. $a_{n+1} \leq a_n$ for sufficiently large n), n). Show that $\sum_{n=1}^{\infty} (-1)^{n-1} \frac{n^{2+25}}{n^2+25}$ converges. This follows directly from the alternating series test, if we can show that $n^{2+25}/(n^2+25)$ is eventually decreasing. The easiest way to do this is to consider the function $f(x) = x^{2+25}$. $f'(x) = (2x+25)(x^{2+24})$ and take its derivative: $f'(x) = (2x+25) - x(2x+25)2 = 25 - x(2x+25)2$. $f''(x) = (25-x^2)(x^{2+24})$. $f''(x) = (25-x^2)(x^{2+24}) < 0$. So $f'(x)$

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