

Series Intuition Builder

For each combination of series and test, verify whether or not the test applies. If the test does not apply to the series, say which requirement(s) is/are not met. If the test does apply, state the conclusion of the test: converges¹, diverges, or no information.

	$\sum_{n=1}^{\infty} \frac{1}{n^2}$	$\sum_{n=1}^{\infty} \frac{1}{1+n^2}$	$\sum_{n=3}^{\infty} \frac{1}{n \ln n}$	$\sum_{n=1}^{\infty} \frac{(-1)^n}{n}$	$\sum_{n=2008}^{\infty} \frac{(-4)^n}{23^n}$	$\sum_{n=2008}^{\infty} \frac{23^n}{4^n}$
Geometric series test						
n^{th} term test						
Integral test						
p -test						
[Direct] Comparison test						
[Limit] Comparison test						
Ratio test						
Root test						
Alternating series test						
Absolute convergence test						

¹In addition, specify whether the convergence is absolute or conditional.