

9.1 Sequences, 9.2 Geometric Series, 9.3 Terms $\nrightarrow 0$, Linearity, Integral

Test	useful when	converges if	diverges if
<i>Terms not Going to 0</i>	$\sum a_n, a_n \nrightarrow 0$	NA: $a_n \rightarrow 0$ use another test inconclusive	$a_n \nrightarrow 0$
<i>Infinite Geometric Series</i>	$\sum_0^\infty ax^n$ x constant ratio a starting value	$ x < 1$	$ x \geq 1$
<i>Finite Geometric Series</i>		always	
<i>Linearity</i>	$\sum a_n + b_n$	both conv	only 1 div
<i>Integral Test</i>	a_n decreasing, > 0 eventually known \int	$\int^\infty a_n dn$ converges	$\int^\infty a_n dn$ diverges