1		
Any, but useful with n!	$\left \lim_{n \to \infty} \left \frac{a_{n+1}}{a_n} \right = L < 1$	S an converges absolutely
and X"	$\begin{vmatrix} im & \alpha_{n+1} = L > 1 \\ h \to \infty & \alpha_n = L > 1 \end{vmatrix}$	∑ an diverges
	$\left \lim_{n \to \infty} \left \frac{a_{n+i}}{a_n} \right = 1$	in conclusive
Any, but useful when there's an overall power of n.	$\lim_{n\to\infty} a_n ^{\frac{1}{n}} = L < 1$	\$ an converges A=1 absolutely
	lim an 1 = L > 1	S' an diverges
	lim an n = 1	in con clusive
looks like: \$\int_{n=0}^{\infty} C_n \times^n or \sum_{n=0}^{\infty} C_n (\times -a)^n	Use Rutio lest: same conclusion as above with $L < 1$, but $L = 1$ is a function of X . Solve to find radius R around R .	
Plug in at R and a-R get ECnR and Ecn(-R)"	Use any of: alt. series test, lim test for divergence, geometric series, or p-series to decide which endpoint(s) converge / diverge.	
	Any, but useful when there's an everall power of n. looks like: \[\frac{\frac{\chi}{\chi} \chi \chi \chi}{\chi \chi} \chi \chi \chi \chi \chi \chi \chi \chi	and x^n , $ \begin{vmatrix} im & \alpha_{n+1} = L > 1 \\ h \to \infty & \alpha_n = 1 \end{vmatrix} $ $\lim_{n \to \infty} \alpha_n = 1$ $\lim_{n \to \infty} \alpha_n = \alpha_n = \alpha_n = 1$ $\lim_{n \to \infty} \alpha_n = \alpha_n = \alpha_n = 1$ $\lim_{n \to \infty} \alpha_n = \alpha_n = 1$ $\lim_{n \to \infty} \alpha_n = 1$