

Practice Chart

You may use $+\infty$ or $-\infty$ or DNE as appropriate.

Curly braces indicate sequences.

Notations:

- C = Convergent
- AC = Absolutely Convergent
- CC = Conditionally Convergent
- D = Divergent

a_n	$\lim_{n \rightarrow \infty} a_n$	$\{a_n\}$ C or D	$\lim_{n \rightarrow \infty} (-1)^n a_n$	$\{(-1)^n a_n\}$ C or D	$\sum a_n$ AC, CC, or D	$\sum (-1)^n a_n$ AC, CC, or D
$\frac{2n}{n+2}$						
$\frac{3^n}{n^2}$						
$\left(\frac{2n+8}{n^2}\right)^n$						
$\frac{n}{n^2+3}$						
$\frac{n!}{100^n}$						
$\frac{1}{1+\ln n}$						
$5\left(\frac{3}{4}\right)^n$						
$\frac{10^n}{n!}$						