

Comparison Test

Comparison Test –

$$\sum_{n=1}^{\infty} \frac{3}{n + \sqrt{n}}$$

$$\sum_{n=1}^{\infty} \frac{1 + \cos n}{n^2}$$

$$\sum_{n=0}^{\infty} \frac{1}{n!}$$

Limit Comparison Test

If $\lim_{n \rightarrow \infty} \frac{a_n}{b_n} = 0$ and $\sum b$ converges,

If $\lim_{n \rightarrow \infty} \frac{a_n}{b_n} = \infty$ and $\sum b$ converges,

$$\sum_{n=1}^{\infty} 4x^2$$

$$\sum_{n=1}^{\infty} \frac{n+1}{n^2 \sqrt{n}}$$

$$\sum_{n=2}^{\infty} \frac{1}{(\ln n)^2}$$

$$\sum_{n=1}^{\infty} \frac{1}{1+2+3+\dots+n} =$$