

. . . more tests . . .

1. Use the comparison test to determine whether or not the series converges.

(a)

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

(b)

$$\sum_{k=1}^{\infty} \frac{1 + \ln k}{k}$$

2. Use the limit comparison test to determine whether or not the series converges.

(a)

$$\sum_{k=1}^{\infty} \frac{k + 2}{k^3 - k + 100}$$

(b)

$$\sum_{k=1}^{\infty} \frac{k(k + 3)}{(k + 1)(k + 2)(k + 5)}$$