

. . . last tests . . .

1. Use the ratio test to determine whether or not the series converges. If the test is inconclusive, then say so.

(a)

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

(b)

$$\sum_{k=1}^{\infty} \frac{k+10}{k^2+2}$$

2. Use the root test to determine whether or not the series converges. If the test is inconclusive, then say so.

(a)

$$\sum_{k=1}^{\infty} \left(\frac{k}{2500} \right)^k$$

(b)

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