

Use the integral test or the comparison test to decide whether the following series converge or diverge.

1.
$$\sum_{j=3}^{\infty} \frac{18j^2}{3j^3 - 1}$$

2.
$$\sum_{i=4}^{\infty} \frac{2i^3}{(2i^4 - 14)^2}$$

Use the ratio test to decide the convergence or divergence of

$$\sum_{k=12}^{\infty} \frac{10^k}{k!}.$$

April 11, 2003

Sklenky