Name: Section: 11   12   13

Determine if the following series converge or diverge; you may use techniques of geometric series, telescoping series, p-series, divergence test, integral test, alternating series test, and comparison tests.

1. $\displaystyle\sum_{n=1}^{\infty}(-1)^n\frac{n}{n^2+1}$

2. $\displaystyle\sum_{n=2}^{\infty}\frac{2^n}{5^n+3^n}$