

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, and integral test. If the series is geometric or telescoping find its sum.

1. 
$$\sum_{n=1}^{\infty} \frac{1}{\sqrt[5]{n^2}}$$

2. 
$$\sum_{n=2}^{\infty} \frac{2^{n-1}}{5^n}$$