

Name:

Section: 7 8

1. Determine if the following geometric series converges or diverges. If it converges find its sum.

$$\sum_{n=2}^{\infty} \frac{3^{n-1}}{4^n}$$

2. Determine if the following telescoping series converges or diverges. If it converges find its sum.

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