

Name:

Student ID:

SR:

Q1) Determine whether the series converges or diverges. If it converges, find its sum.

$$\sum_{n=1}^{\infty} (-1)^{n+1} \frac{2^{3n}}{3^{2n}}$$



Q2) Determine whether the following series converges or diverges.

$$\sum_{n=1}^{\infty} \ln\left(\frac{n+e}{3n+\pi}\right)$$