

Q1. Determine whether  $\sum \frac{1}{n^{\ln n}}$  converges or diverges.

Q2. Determine whether  $\sum (2n + 1) \cdot 2^{-n}$  converges or diverges.

Q1. Determine whether  $\sum \frac{2^n + n^2}{n^3 + 3^n}$  converges or diverges.

Q2. Determine whether  $\sum (\csc^{-1} n)^n$  converges or diverges.