Q1. Determine if the geometric series \( \sum_{n=0}^{\infty} \left( \frac{5}{2^n} - \frac{1}{3^n} \right) \) diverges or converges. If it converges, find its sum.

Q2. Express \( 0.23 = 0.232323\cdots \) as the ratio of two integers.
Q3. Find a formula for the nth partial sum of the series \( \sum_{n=1}^{\infty} \left( \frac{1}{n} - \frac{1}{n+1} \right) \).