

QUIZ 5

MATH 102

NAME: _____ ID _____ SECTION

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 $0.\overline{23} = 0.232323\cdots$ as the ratio of two integers.

Q3. Find a formula for the nth partial sum of the series $\sum_{n=1}^{\infty} \left(\frac{1}{n} - \frac{1}{n+1} \right)$