

## QUIZ 9

Name \_\_\_\_\_

1. Does the sequence  $a_n = \ln(2n + 1) - \ln(n)$  converge or diverge?

2. Does the series  $\sum_{k=2}^{\infty} \frac{k}{k+4}$  converge or diverge?

3. Is the series  $\sum_{n=1}^{\infty} 5 \left(-\frac{3}{5}\right)^n$  a geometric series? Does it converge to a number? If it does find the number.