Ma1023
Quiz 4

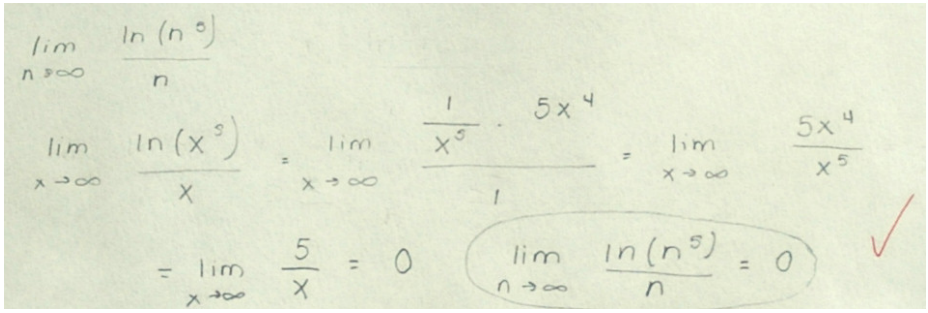
Calculus III

A Term, 2010

Print Name: _____

Sign: _____

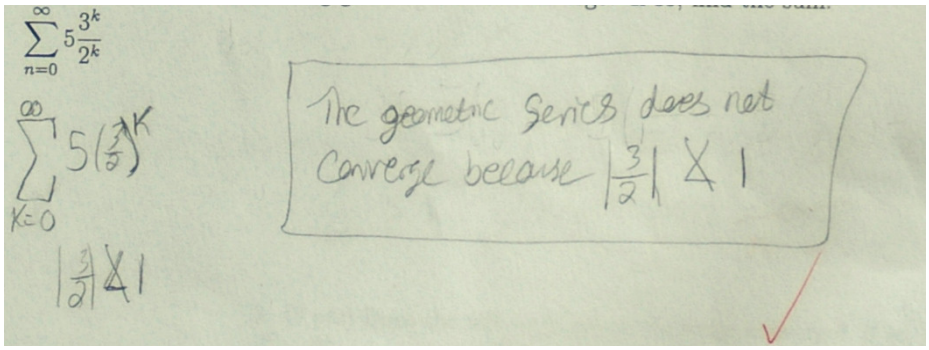
1. (4 pts) Compute the limit of the sequence $\left\{\frac{\ln(n^5)}{n}\right\}_{n=1}^{\infty}$



Thanks to Ali La Rue

2. (3 pts) Does the following geometric series converge? If so, find the sum.

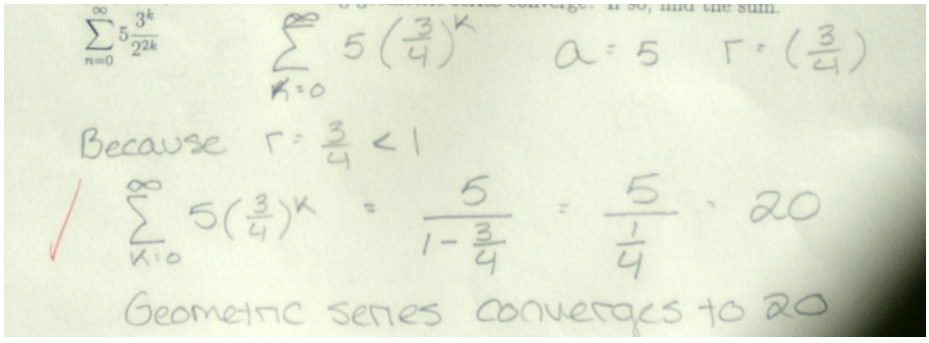
$\sum_{n=0}^{\infty} 5\frac{3^k}{2^k}$



Thanks to Phillip Simen

3. (3 pts) Does the following geometric series converge? If so, find the sum.

$\sum_{n=0}^{\infty} 5\frac{3^k}{2^{2k}}$



Thanks to Casey Hensel