MATH 106B,C - CALCULUS II FALL 2011

QUIZ 8

NAME:

Show ALL your work CAREFULLY.

(a) Find the limit of the following sequence or explain why it does not exist.

\[ a_n = e^{\ln n} \]

(b) Determine whether the following infinite series converges or diverges. If it converges, evaluate the infinite series.

\[ 1 - \frac{2}{3} + \frac{1}{4} - \frac{1}{12} + \frac{1}{36} - \frac{1}{108} + \ldots \]

Date: November 14, 2011.