



Bilkent University

Quiz # 03
Math 102 Section 08 Calculus II
26 February 2024 Monday
Instructor: Ali Sinan Sertöz



Name & Lastname:

Department:

Student ID:

Q-1)

(a) Determine if the series $\sum_{n=1}^{\infty} \frac{\ln n}{n}$ converges or diverges.

(b) Determine if the series $\sum_{n=2}^{\infty} \frac{1}{n^{1+\frac{1}{n}}}$ converges or diverges.

(c) Find all values of x for which the series $\sum_{n=3}^{\infty} \frac{(x-3)^n}{\ln n}$ converges.

Show your work in detail. Correct answers with no justification will not get any credit.

Grading: 2+2+6=10 points

Solution: (Grader: melis.gezer@bilkent.edu.tr)