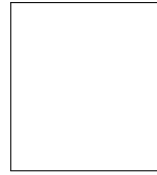




Bilkent University

Quiz # 04
Math 102 Section 08 Calculus II
4 March 2024 Monday
Instructor: Ali Sinan Sertöz



Name & Lastname:

Department:

Student ID:

Q-1) Evaluate the series $\sum_{n=1}^{\infty} (-1)^n \frac{n^2}{3^n}$.

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

Hint: Start with the geometric series and construct an analytic function whose Taylor series looks like the above series, as we did in class!

Grading: 10 points

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