

## Quiz # 01 Math 102 Section 08 Calculus II 12 February 2024 Monday Instructor: Ali Sinan Sertöz

	Name & Lastname:
Department:	Student ID:

## Q-1)

- (a) Does the series  $\sum_{n=1}^{\infty} \frac{1}{n^{1/n}}$  converge or diverge? If it converges find its sum.
- (b) Does the series  $\sum_{n=2}^{\infty} \frac{1}{n^2 1}$  converge or diverge? If it converges find its sum.
- (c) Does the sequence  $\left(\frac{n}{n+1}\right)^n$  converge or diverge? If it converges find its limit.

Show your work in detail. Correct answers with no justification will not get any credit. Grading: 2+5+3=10 points

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