



Bilkent University

Quiz # 01
Math 101-Section 05 Calculus I
28 September 2023 Thursday
Instructor: Ali Sinan Sertöz



Name & Lastname:

Department:

Student ID:

Q-1) Find all values of a and b which make the following function continuous everywhere.

$$f(x) = \begin{cases} ax^2 & x < 2 \\ ax + b & 2 \leq x < 5 \\ x^2 + b & 5 \leq x \end{cases}$$

Show your work in detail. Correct answers without detailed explanation do not get any credit.

Grading: 5+5=10 points if satisfactory explanations are provided.

Answers: