



Bilkent University

Quiz # 05
Math 101-Section 05 Calculus I
26 October 2023 Thursday
Instructor: Ali Sinan Sertöz



Name & Lastname:

Department:

Student ID:

Q-1) Let $h(x) = 5 - \frac{2}{x^2 + 1}$ on the interval $[-1, 2]$.

- (a) Find the absolute minimum and the absolute maximum values of h on the given interval.
- (b) Let f be a function such that $f'(x) = h(x)$ on the given interval. Show that

$$9 \leq f(2) - f(-1) \leq \frac{69}{5}.$$

Grading: 5+5=10 points

Answers: