



Bilkent University

Quiz # 06
Math 101-Section 05 Calculus I
2 November 2023 Thursday
Instructor: Ali Sinan Sertöz



Name & Lastname:

Department:

Student ID:

Q-1) Consider the function $f(x) = (2x + 7)(x - 1)^2$ on the interval $[-4, 2]$.

- (a) Find the critical points of f and decide if f has a local minimum or local maximum values at these critical points.
- (b) Find the global minimum and the global maximum values of f .
- (c) Find the inflection points of f .
- (d) Sketch the graph of $y = f(x)$. No explanation is necessary. Just make sure that the concavity, intercepts etc are clearly visible in your sketch.

Grading: 4+2+1+3=10 points

Answers: