

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
Math 101 – **Quiz 3** Term 122

Student Name _____ Student ID: _____

Exercise

$$f(x) = \begin{cases} -x & ; x \leq -1 \\ x^2 & ; -1 < x < 1 \\ 2x - 1 & ; x \geq 1 \end{cases}$$

(a) Find $f'(1)$.

(b) Find $f'(-1)$.

(c) Give a formula for $f'(x)$.