

KFUPM – Math 132– Quiz 1

Name : ID #.....Sec# Serial #:

Question 1 [5 points]: Find the following limit

$$\lim_{x \rightarrow -1^+} \frac{x^2 + 7x + 6}{x^2 + 2x + 1}.$$

Question 2 [5 points]: Find the values of A and B making the following function continuous everywhere.

$$f(x) = \begin{cases} Ax - 4 & : 0 \leq x \leq 1 \\ 2x - B & : 1 < x \leq 2 \\ Ax^2 + 1 & : x > 2 \end{cases}$$