KFUPM Math101 Quiz#3 Sec.#12

Name: Serial#:

Q1. Find the values of A and B that make *f* differentiable everywhere.

$$f(x) = \begin{cases} x^2 & if \;\; x \leq 2 \\ Ax + B & if \;\; x > 2 \end{cases}$$

Q2. Find the limit $\lim_{x \to 0} \frac{sin2x}{2x - tanx}$