

King Fahd University of Petroleum & Minerals
Department of Mathematical Sciences
MATH - 101 Semester 083 **Quiz - 1**

Name: _____ ID# _____ Section# _____

Problem Find the limit (if exists)

$$\lim_{x \rightarrow 3^+} \frac{x^2 - 2}{3 - x}, \quad \lim_{x \rightarrow 1^-} \frac{x - 1}{\sqrt{x}|1 - x|}, \quad \lim_{x \rightarrow 1} \frac{1}{2} \left(\frac{x^2 - \sqrt{x}}{\sqrt{x} - 1} \right)$$