

**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)

$$\lim_{x \rightarrow 2^+} \frac{x^2 - 1}{2 - x}, \quad \lim_{x \rightarrow 1^-} \frac{x - 1}{x|1 - x|}, \quad \lim_{x \rightarrow 1} \frac{x^2 - \sqrt{x}}{\sqrt{x} - 1}$$