KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 101 - QUIZ 1

Name:
Student ID #:

Question1. Decide whether the following limit is $+\infty$ or $-\infty$.

$$\lim_{x \to 5^-} \frac{x^3 - 5^3}{(x - 5)^3}$$

Question2. If it exists, evaluate the following limit.

$$\lim_{x \to 0} \left(\frac{1}{t\sqrt{1 + t}} - \frac{1}{t} \right)$$

Your Solution.