

King Fahd University of Petroleum and Minerals

MATH-101

Dr. M. Jarrar

Quiz 1

Name:-

ID:-

Sec.:-

S.N.:-

Q1) Find $\lim_{x \rightarrow 2} \frac{x-2}{(\sqrt{x+7}-3)(\sqrt{x+7}+1)}$ if it is exist

Q2) Find the limit, if it is exist. .

a) $\lim_{x \rightarrow 0} \frac{e^{3x}-1}{e^x-1}$

b) $\lim_{x \rightarrow 3} \frac{x-1}{x \ln(x-2) - \ln(x-2)^3}$

Q3) Find the number δ such that $|\frac{x}{x+1} - \frac{1}{2}| < \frac{1}{4}$. whenever $|x-1| < \delta$