

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
(Semester 161) Math 101 Quiz # 2

Name: _____ I.D. # _____ Sr. # _____

1. Using the $\varepsilon - \delta$ definition, prove the statement $\lim_{x \rightarrow -3} 1 - 2x = 7$.

2. Find real α such that $f(x) = \begin{cases} \alpha - x^2 & \text{if } x \leq 1 \\ x - \sqrt{\alpha} & \text{if } x > 1 \end{cases}$ is continuous.