

King Fahd University of Petroleum and Minerals
Math Prep-Year Program Math 001
Term 061 Quiz# 5

Name: _____ **ID#:** _____ **Sec. 56**

Q1 $f(x) = \begin{cases} x^2 - 5, & x < 1 \\ \lfloor 2x + 2 \rfloor, & 1 \leq x < 4 \\ 2x - 5, & x \geq 4 \end{cases}, \quad g(x) = \sqrt{x+1}$

Find $(f \circ f \circ g)(1)$

Q2. If $f(x) = \frac{2x}{x+3}, x \neq -3$ and $f^{-1}(x) = \frac{-3x}{bx-a}$, then $ab =$