

King Fahd University of Petroleum and Minerals
College of Sciences Math Prep-Year Program
Math 001-Term 062 – Quiz 1

Name _____ ID# _____ Sec# _____ SR# _____

QUESTION 1 If

$$A = \{x|x \leq -2\} \cup \{x|x \geq 3\} \quad \text{and} \quad B = \{x|-2 \leq x \leq 4\} \cap \{x|1 < x < 5\}$$

Then $A \cap B =$ _____

QUESTION 2 If $x < y$, then simplify $\left[(x^2 - 2xy + y^2)\right]^{\frac{1}{2}} + \left[(x - y)^3\right]^{\frac{1}{3}}$

QUESTION 3 $3x\sqrt[3]{8x^3y^4} - 2y\sqrt[3]{27x^6y}$