

KING FAHD UNIVERSITY OF PETROLUUM AND MINERALS

Faculty of Science, Prep-Year Math Program

Math 001 - Term 041

QUIZ #6 (2.3 and 2.4)

Name:

ID:

Sr. #:

Sec.:

Question1

(3 points)

Find the equation of the line passes through the point $(3,7)$ and perpendicular to the line passing through the two points $(0, 1)$ and $(-2, 3)$.

Question2

(3 points)

If a rectangle has perimeter 800 meters, then find the maximum area of this rectangle.

Question3

(4 points)

If the graph of a **linear function** f has the intercepts $(-k,0)$ and $(0,k)$ where $k \neq 0$ and $f(-3) = 10$, then find the value of k .