

King Fahd University of Petroleum & Minerals
Department of Mathematical Science
MATH-102-Term051-Quiz #1

Name:

ID:

Serial:

Question One (3-Points)

Suppose that $f(x) = 3 - 3x$; $[a, x] = [0, x]$ find

a. The area function $A(x)$

b. What is the area if $[a, x] = [0, 1]$

Question Two (3-Points)

Evaluate: $\int \frac{dx}{x \sqrt{4x^2 - 5}}$

Question Three (4-Points)

Find the net signed area using x_k^* the right end point if $f(x) = x^3 - 1$, $a=0, b=1$.