

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-102 Semester-153 QUIZ I

NAME:

S.No.

ID:

Maximum Marks: 10

Section: 02

Time Allowed: 30 minutes

(1) Estimate the area under the graph of $y = x^2$ from 1 to 9 by using the four rectangles and midpoints.

(2) Use the form of the definition of the integral to evaluate the integral

$$\int_0^3 (x^3 - 6x) dx.$$

(3) Use the Fundamental Theorem to find $\frac{dy}{dx}$ if $y = \int_{1+3x^2}^4 \frac{1}{2 + e^t} dt$.