King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 102 - Quiz 1

Name:
Student ID #:

Question 1. Evaluate the sum $\Sigma_{i=1}^{5}(i^2 - i + 2)$.

Question 2. Use left points and three rectangles, to estimate the area below the curve of $f(x) = 8 - x^3$ on the interval $[-4, 2]$

QUESTIONS 3 and 4 ARE ON THE BACK OF THE PAGE.

Question 3. Find the derivative of $f(x) = \int_{x^2}^{\pi} \sin(t^2)dt$.

Question 4. Evaluate the definite integral $\int_0^1 x - \dfrac{\tan(x)}{\cos x}dx$.