

King Fahd University of Petroleum & Minerals

Department of Mathematical Sciences

MATH - 102-08

Semester 122

Quiz - 1

Name: _____ ID# _____

Problem 1. Evaluate

$$\lim_{n \rightarrow \infty} \frac{-3}{n^2} (2 + 4 + 6 + \dots + 2n)$$

Problem2.

Find $f(4)$ if

$$\int_0^{x^2} [f(t) - 2] dt = x \cos(\pi x).$$

Problem3. Evaluate

$$\int_{-1}^1 \frac{1}{3x - 4} dx.$$