

King Fahd Univ. of Petroleum and Minerals
Faculty of Sciences
Department of Mathematical Sciences

QUIZ No. 2
(MATH. 102-042 Sections 1 & 2)

Name:

ID:

Prob. 1

Compute

$$\int 7x^7 \sqrt{x^4 - 7} dx$$

Prob. 2

What is the limit of $(-1)^n \frac{\ln n}{n^2}$ as n goes to infinity ?

Prob. 3

What can you say about the sequence $\left\{ \frac{n!}{e^n} \right\}_{n=1}^{\infty}$?