## King Fahd University of Petroleum and Minerals Department of Mathematics and Statistics

	Math 131 (Term 133) - Quiz 1
Student Name	Student ID:

## Exercise 1

A small business predicts its revenue growth by a straight-line method with a slope of 10,000 SR per year. In its tenth year, it had revenues of 110,000 SR. Find an equation that describes the relationship between the revenue R and the number of years T since it opened for business.

## Exercise 2

A marketing firm estimates that  $m{n}$  months after the introduction of a client's new product,  $m{f}(m{n})$  thousand households will use it, where

$$f(n) = \frac{6}{5}n(10 - n), 0 \le n \le 10.$$

Estimate the maximum number of households that will use the product.