

## QUIZ 1

Name \_\_\_\_\_

1. On the basis of data for the years 1988 through 1997, the number of students of osteopathic medicine in the United States, measured in the spring of the year  $1900+t$ , can be modeled as

$$O(t) = 0.027686t^2 - 4.854t + 218.58318$$

thousand students.

- (a) Describe (in words) the input and output of the function  $O$  and give the units of each.
- (b) Estimate the number of osteopathy students in the spring of 1998.

2.  $E(t)$  is the value of cotton exports in millions of dollars in year  $t$ . Write sentences interpreting the following mathematical statements.

(a)  $E(1988) = 1975$ .

(b)  $E = 1999$  when  $t = 1992$ .

(c)