

Fadimba

**MTH 131**

**Fall 2000**

**QUIZ # 1**

1. The Gap, Inc. operates nearly 2000 casual clothing special stores. The following table gives the net profit in millions of dollars from 1990 to 1997.

| Year                    | 1990  | 1991  | 1992  | 1993  | 1994  | 1995 | 1996  | 1997 |
|-------------------------|-------|-------|-------|-------|-------|------|-------|------|
| Net profit (\$ million) | 144.5 | 229.9 | 210.7 | 258.4 | 350.2 | 354  | 452.9 | 530  |

- a) Find the change in net profit between 1993 and 1996
- b) Find the average rate of change in net profit between 1993 and 1996

2. Right after a certain drug was administered to a patient with a rapid heart rate, the heart rate plunges dramatically and then slowly rises again as the drug wears off. Sketch a possible graph of the heart rate against time from the moment the drug is administered.

3. An equation of a line is  $3x + 4y = -2$ .

- a) Find the slope of the line.
- b) Find the  $x$  and  $y$  intercepts.

4. Give 2 examples of linear functions and 2 examples of power functions.