Math 110

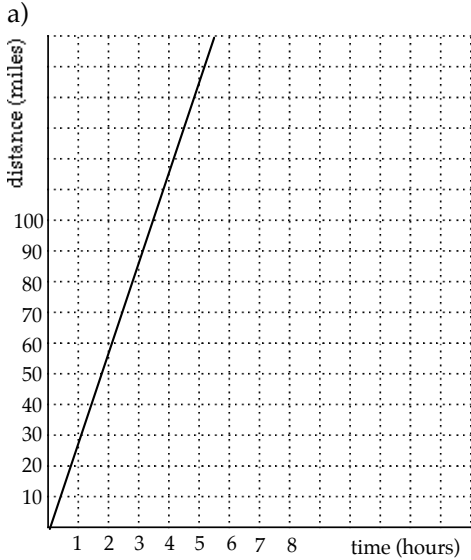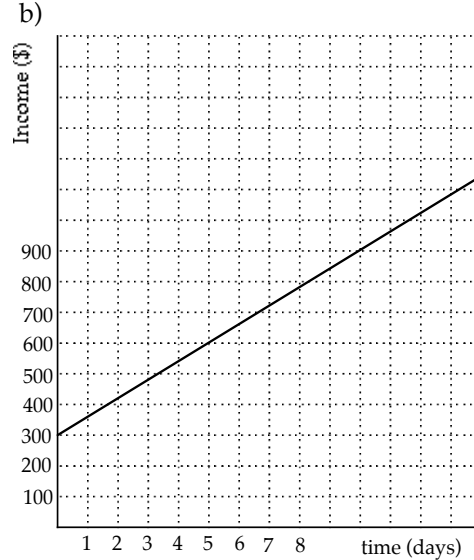Slope   Name:_____

1. What is slope (the definition) ?

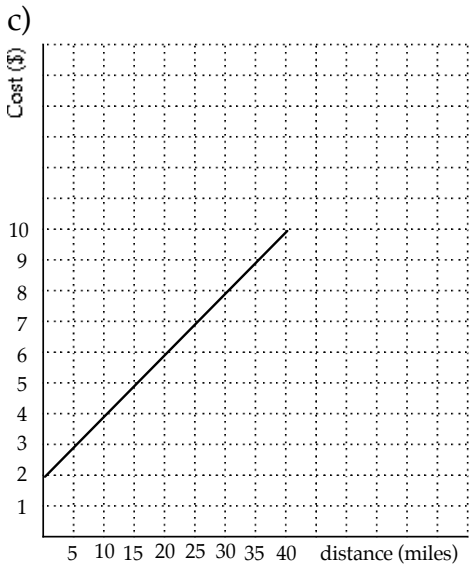2. Find the slope of the line below. Give the units of the slope and give a situation it might describe.

a)

distance (miles)

100
90
80
70
60
50
40
30
20
10

1 2 3 4 5 6 7 8   time (hours)

Slope:_____

What does the slope tell you?

b)

Income ($)

900
800
700
600
500
400
300
200
100

1 2 3 4 5 6 7 8   time (days)

Slope:_____

What does the slope tell you?

c)

Cost ($)

10
9
8
7
6
5
4
3
2
1

5 10 15 20 25 30 35 40   distance (miles)

Slope:_____

What does the slope tell you?

What is the meaning of the point (0, 2)?

3. Captain Dood's airplane flight is plotted below. Try to answer these questions. **Include units!**

a) What is the highest she flew ? _____

b) How long did it take her to get there ?_____

c) What was her rate of climb ?_____

d) How long did she stay at her highest ?_____

e) What was her rate of descent when she
started coming down (at t = 7 min.) ?_____

f) What was happening between 9 minutes and 12 minutes ?