Chapter 3





1. Compute the slope of the line that passes through the points:









Property #1

- A line is descending if and only if its slope is negative.
- A line is ascending if and only if its slope is positive.
- A line is vertical if and only if its slope is undefined.
- A line is horizontal if and only if its slope is zero.

2. a) Graph the line 4x - 2y = 8 by intercepts.



b) Compute the slope using the x-intercepts and y-intercepts.

c) Compute the slope using (4,4), (1,-2).

Property #2

A line has constant slope.

The Meaning of Slope

3. The distance in miles that a car is driven is given by d = 55t, where t is the number of hours the car is driven.

a) Make a table of values.



c) Using 2 points, compute the slope.

d) What is the meaning of the slope?

4. a) For each graph, choose 2 points and compute the slope (including units).





Fig. shows the amount of garbage, G, (in tons) that has been deposited at a dump t years after new regulations go into effect.

Fig. shows the amount of money, M (in \$) in Tammy's bank account w weeks after she loses all sources of income.