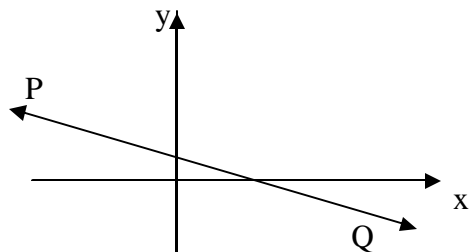

3.3 The Slope of a Line

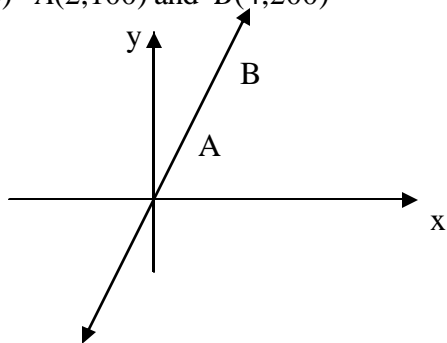
In class work : Solve each problem.

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

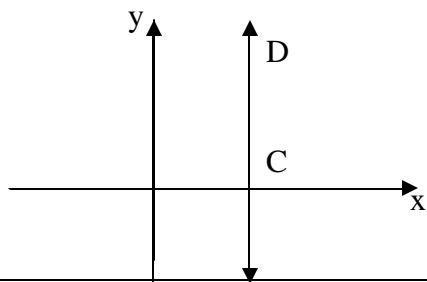
a) $P(-4,2)$ and $Q(5,-1)$



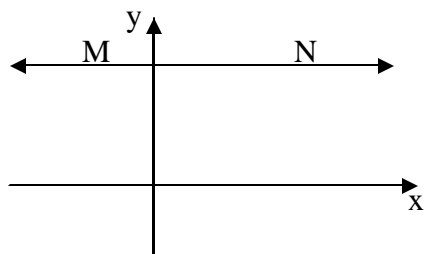
b) $A(2,100)$ and $B(4,200)$



c) $C(4,0)$ and $D(4,10)$

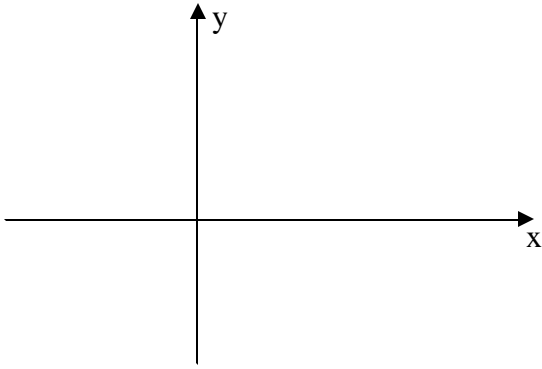


d) $M(-2,3)$ and $N(5,3)$



Property #1

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 $(4,4)$, $(1,-2)$.

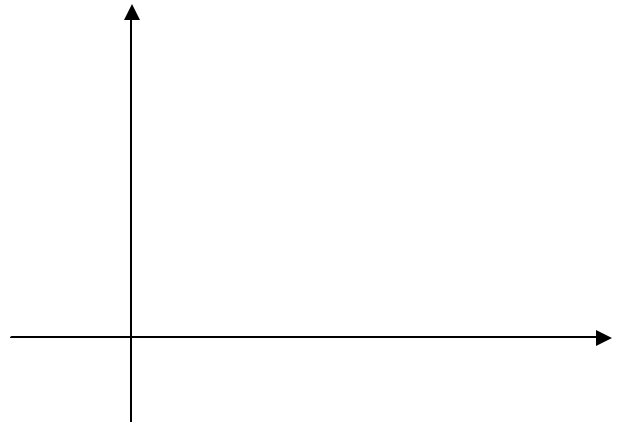
Property #2

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.

b) Graph the equation



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).

b) Explain what the slope measures in the context of the problem.

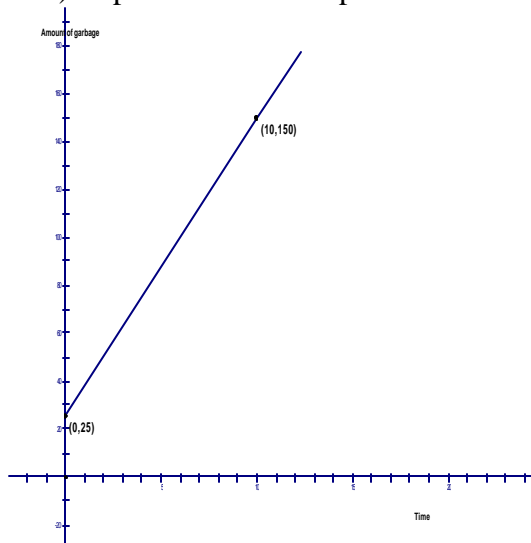


Fig. shows the amount of garbage, G , (in tons) that has been deposited at a dump t years after new regulations go into effect.

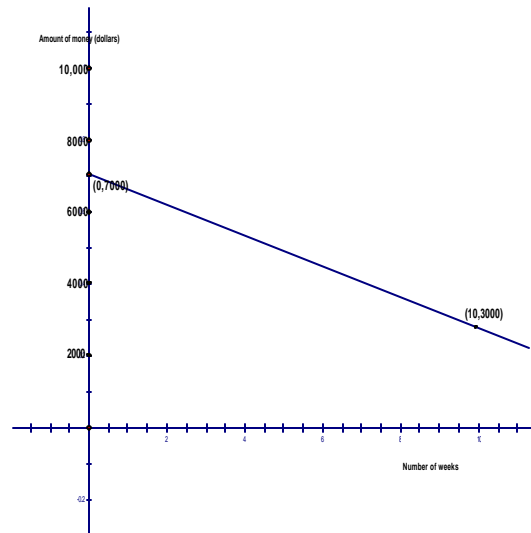


Fig. shows the amount of money, M (in \$) in Tammy's bank account w weeks after she loses all sources of income.