

**Problems for homework** Use the formula for the slope of two points. SHOW YOUR WORK.

Find the slope of the line that passes through each pair of points.

1)  $(2,5)(3,6)$       2)  $(-2,4)(6,6)$  \_\_\_\_\_

3) A soft drink bottle filling machine can fill 22 bottles per minute. The table shows the relationship between the number of minutes and the number of bottles filled.

Time (minutes)	1	2	3	4	5
Bottles filled	22	44	66	88	110

4) The table shows the volume of water released by Hoover Dam over a certain period of time.

Water Released from Hoover Dam	
Time (s)	Volume of Water (m <sup>3</sup> )
5	75,000
10	150,000
15	225,000
20	300,000

5)

Sound Intensity	
Input Signal Power (W)	Output Sound Intensity (dB)
6	16
8	36
12	76
20	116
28	116

6) The table shows an employee's pay per number of hours worked.

Hours Worked	0	1	2	3	4	5	6
Pay (\$)	0	9.50	19.00	28.50	38.00	47.50	57.00

Compare some rates to average.

The rate of change is constant in the table. Find the rate of change. Explain what the rate of change means for the situation.

1.

Time (days)	Cost (dollars)
3	75
4	100
5	125
6	150

2.

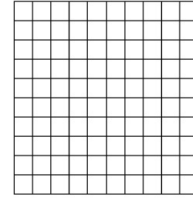
Time (hours)	Distance (miles)
4	232
6	348
8	464
10	580

Part 1 For each t-shirt company:

- Plot the ordered pairs on the grid that is on the right of the table.
- Find the slope for this t-shirt company using the values in the table

1.

Number of t-shirts	Cost (in dollars)
x	y
2	87
4	99
6	111

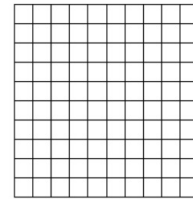


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3.

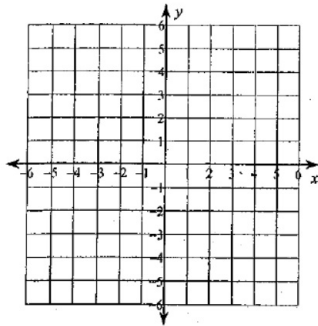
x	5	10	15
y	23	43	63

4.

x	4	10	17
y	22	58	100

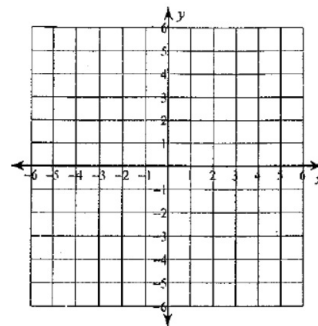
Sketch the graph of each line.

1)  $y = -\frac{3}{5}x + 5$



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2)  $y = -\frac{1}{2}x$



Find the Slope of Each Line

