

9.2

Practice
For use after Lesson 9.2

1. The table shows the money you owe to pay off a credit card bill over five months.

a. Make a scatter plot of the data and draw a line of fit.



Months, x	Money owed (dollars), y
1	1200
2	1000
3	850
4	600
5	410

I used these two points for slope because they're on my line

slope $\frac{\Delta y}{\Delta x} = \frac{1000 - 1200}{2 - 1} = \frac{-200}{1}$

b. Write an equation of the line of fit.

$y = -200x + 1400$

c. Interpret the slope and y-intercept of the line of fit.

The slope: You owe \$200 less each month
 y-intercept: Your credit card bill started at \$1400

d. Predict the amount of money you will owe in six months.

I will owe around \$200 after 6 months.

Use a graphing calculator to find an equation of the line of best fit. Identify and interpret the correlation coefficient.

2.

x	-8	-6	-4	-2	0	2	4	6	8
y	10	7	1	0	-3	-5	-4	-14	-11

3.

x	1	2	3	4	5	6	7	8
y	8	6	4	2	0	2	4	6