ALGEBRA II
Chapter 2 section 6
Draw Scatter Plots and Best - Fitting Lines
pg. 113

FOCUS:
How can you tell if a set of data points can be modeled by a best - fitting line?

VOCAB:
*Scatter Plot:*_____

_____

*Positive Correlation:*_____

_____

*Negative Correlation:*_____

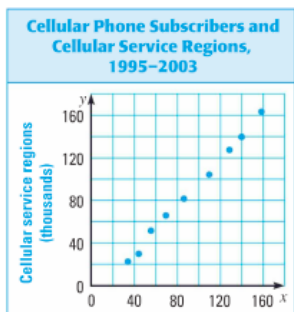_____

*Correlation Coefficient:*_____

_____

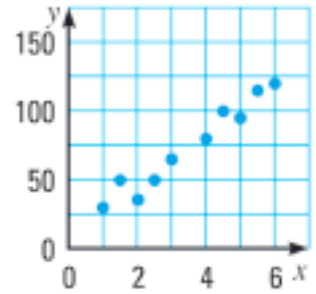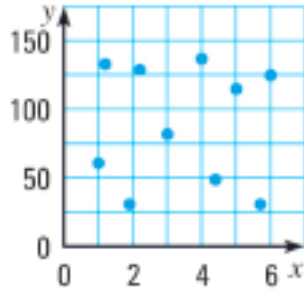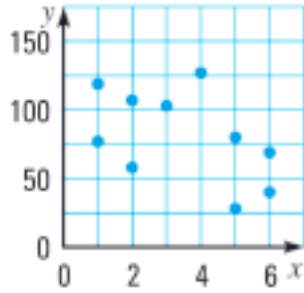*Best - Fitting Line:*_____

_____

WARM – UP:

1. Find the slope of the line through
     (-5, 1) and (2, -6).

2. Write an equation of the line through
     (-2, 5) and (4, 8).

3. A line's graph has slope $\dfrac{2}{3}$ and contains the point (6, 1). Write an equation of the line.

NOTES:

Describe the correlation shown by each scatter plot.

Cellular Phone Subscribers and Cellular Service Regions, 1995–2003

Cellular Phone Subscribers and Corded Phone Sales, 1995–2003

2.6 notes pg.1
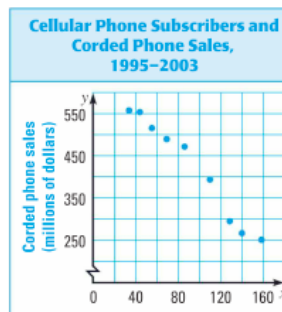
Tell whether the correlation coefficient for the data is closest to -1, -0.5, 0, 0.5, or 1.

The table gives the systolic blood pressure y of patients x years old. Find the best - fitting line for the data.

x	43	48	56	61	67	70
y	128	120	135	143	141	152

Predict the systolic blood pressure of a 75 year old patient.

The table shows the U.S. daily oil production y (in thousands of barrels) x years after 1994.

x	1	2	3	4	5	6	7	8
y	6660	6560	6470	6450	6250	5820	5800	5750

Predict the daily oil production in 2009.

Let's see if you comprehended what we worked on in class…

Try _____ for homework