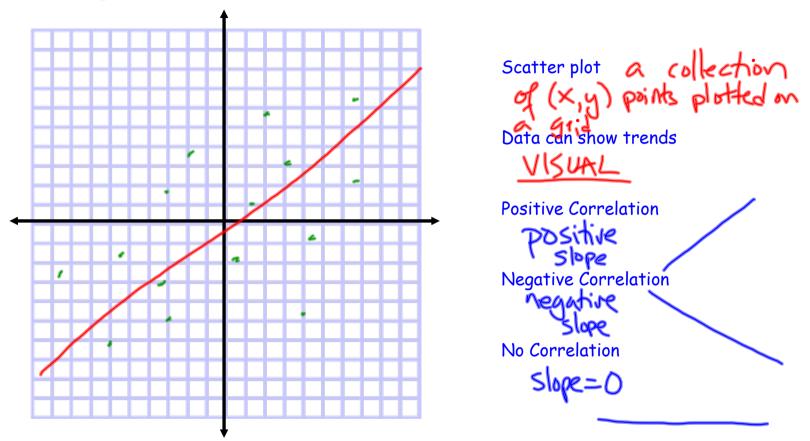
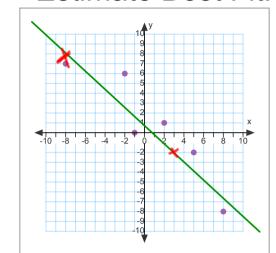
Reminders:

- . Unit Test (Ch. 4 & 5 & 6.7) Thursday, 10/27
- Last day of the quarter is Thursday,11/10
- . Last day for make-up work (excused!) is Monday, 11/14

Fitting a line to data:



Estimate Best Fit:



$$J = MX + B$$

$$-2 = M(3) + B$$

$$-2 = \frac{10}{-11}(3) + B$$

$$-2 = -\frac{30}{11} + B$$

$$+\frac{30}{11} = B$$

Make a scatter plot

Draw a line that has roughly equal numbers of points above and below

Pick two points on the line and write an equation

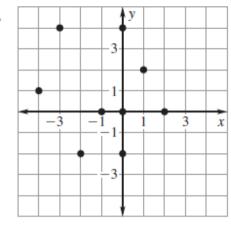
$$(3,-2) \oplus (-8,8) \oplus ($$

	X	Y	
	5	-2	
•	8	-8	= 10
	2	1	-11
	-2	6	
	-8	7	

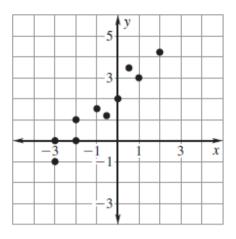
$$\frac{1}{11} + \frac{30}{11} = \frac{8}{11}$$

Tell whether x and y show a positive correlation, a negative correlation, or relatively no correlation.

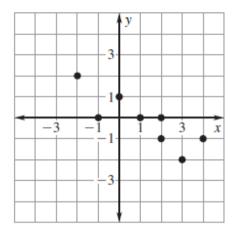
1.



2.

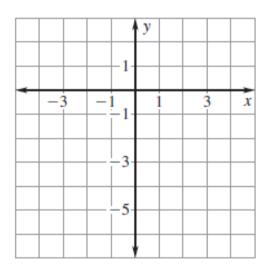


3.



Identify the equation of a line with the best fit

x	-3	-2	-1	0	1	2
y	1	-1	0	-2	-4	-5

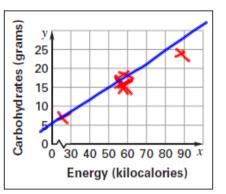


Fruits The table shows the amount of energy (in kilocalories) and the amount of carbohydrates (in grams) in a 100-gram serving of different fruits.

Fruit	Apple	Banana	Blueberries	Kiwi	Pear	Strawberries	Mango
Energy (kcal)	60	920		句の	SO	36	65
Carbohydrates (g)	16.25	23.44	14.03	1 /K 88	1651	7	15

- **a.** Make a scatter plot of the data where *x* represents the energy (in kilocalories) and *y* represents the carbohydrates (in grams).
- **b.** Describe the correlation of the data.
- **c.** A 100-gram serving of an avocado contains 161 bilocalories of energy and 7.39 grams of carbohydrates. Does an avocado fit the trend shown by your scatter plot? *Explain* your reasoning.





Homework:

p. 328, 3-7, 13-15, 17, 19