Algebra 2: Palka/Peto
Lesson 2-14 Best Fitting Lines

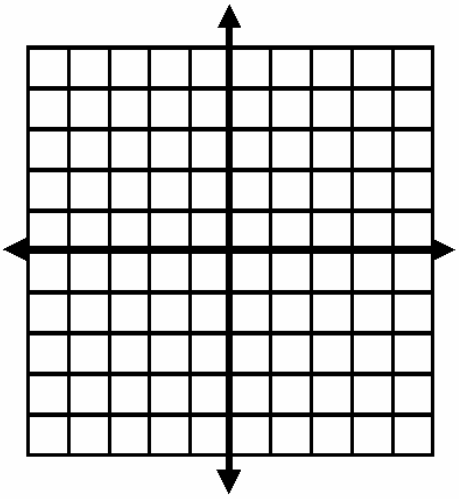
Name: _____
Date: _____ Period: _____

To draw and calculate the equation for the Line-of-Best-Fit

1)

x	-2	-1.5	-1	-0.5	0	0.5	1	1.5	2
y	3	2.5	3	2.4	2.2	2	2.1	1.8	1.5

A) Draw a scatter plot of the data.



B) Write down the coordinates of two points on you line.

C) Use your two points to calculate the slope of the line.

D) Use your slope and a point on the line to calculate the *y*-intercept.

E) Does your *y*-intercept seem reasonable? Explain.

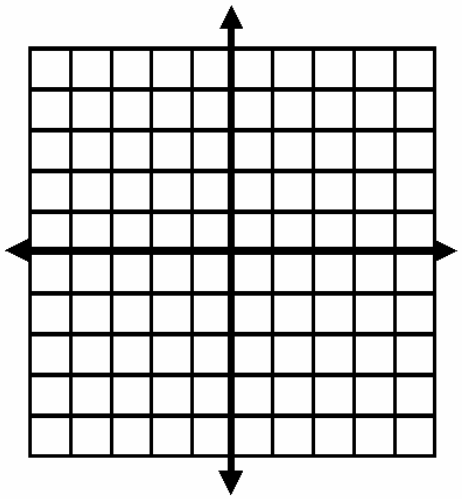
F) Write the equation of your best-fitting line.

G) Does the data have a positive correlation, a negative correlation, or relatively no correlation?

2)

x	-5	-4	-3	-2	-1	0	1	2	3
y	3	2.5	2.8	3.2	3	4	4.2	4.3	4.5

A) Draw a scatter plot of the data.



B) Write down the coordinates of two points on you line.

C) Use your two points to calculate the slope of the line.

D) Use your slope and a point on the line to calculate the *y*-intercept.

E) Does your *y*-intercept seem reasonable? Explain.

F) Write the equation of your best-fitting line.

G) Does the data have a positive correlation, a negative correlation, or relatively no correlation?