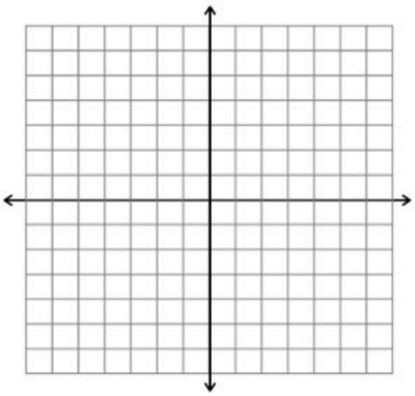
Quiz 3.1-3.2 Name _____ Hr. _____

1. Graph and answer questions about the function f(x) = -3x + 7 (5pts)

- what is the slope _____ what is the y intercept _____

- is f increasing, decreasing, or constant _____

- Graph the function (please be neat)



2. Determine whether the given function is linear or nonlinear. If it is linear, determine the equation of the line (y = mx +b). (5pts)

x	y
0	55
10	52.5
20	50
30	47.5
40	45

- is the function Linear non linear_____

- how do you know _____

- write the equation of the line _____

3. (15 points)

X	-2	-1	0	1	2
Y	7	6	3	2	0

A.) use your graphing calculator to determine the line of best fit and correlation coefficient. Line of best fit _____ r = _____

B.) By hand do the line of best fit and provide the answers to:

Sum of x's	Sum of y's	Sum of x^2	Sum of y^2	Sum of x * y
_____	_____	_____	_____	_____

n = _____ Sxx = _____ Syy = _____ Sxy = _____

mean of x's _____ mean of y's_____ slope m = _____ b = _____

C.) What does the r value tell you about how good your line is?