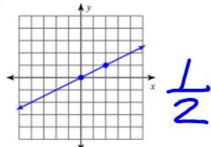
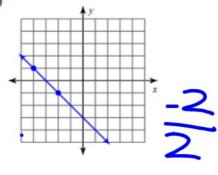
## Find the slope of each line.

1)



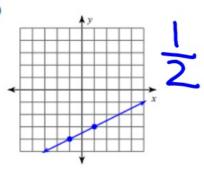
2)



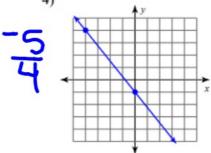
remember: rise/run



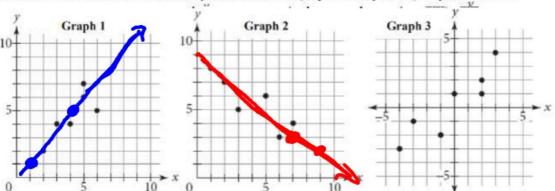
3)



4



Draw the line of best and write the equation of the line (slope-intercept form) - Eyeball Method



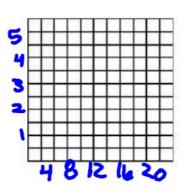
- a.) Draw the line of best fit, showing the general trend of the line
- b.) Choose two points on the line of best fit, the points may not necessarily be a data point
- c.) Find the slope using those two points
- d.) Use the slope and one of the points to substitute into y = mx + b
- e.) Solve for b.
- f.) Write the equation of the line in slope-intercept form by substituting m and b into y = mx + b

Graph 1	Graph 2	Graph 3	
b)	b) <b>3</b>	b)	
0 4/2	0-1/2	c)	
d)	d)	d)	
e) 🚺	e) <b>O</b>	e)	
1 4=41=	X+0 1 4=1/2	xtq n	

 A student who waits on tables at a restaurable recorded the cost of meals and the tip left by single diners.

With calculators

Meal Cost	\$4.75	\$6.84	\$12.52	\$20.42	\$8.97
Tip	\$0.50	\$0.90	\$1.50	\$3.00	\$1.00



Line of Best Fit Equation: 4=16x + -. 3

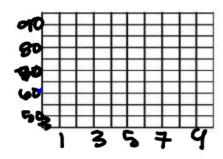
If the diner orders a meal costing \$10.50, how much tip should the waiter expect to receive? (Show all work!)

Expected Tip:

## Line of Best Fit Notes

2. The table below gives the number of hours spent studying for a science exam (x) and the final exam grade (v).

x	2	5	1	0	4	2	3
11	77	92	70	63	90	75	84



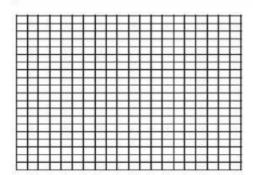
Line of Best Fit Equation: y=6.09x +43.93

Predict the exam grade of a student who studied for 6 hours. (Show all work!)

Expected Grade:

3. The table below shows the lengths and corresponding ideal weights of sand sharks.

Length	60	62	64	66	68	70	72
Weight	105	114	124	131	139	149	158



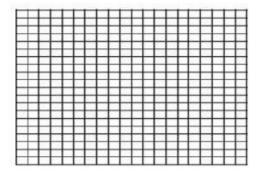
Line of Best Fit Equation: \_\_

Predict the weight of a sand shark whose length is 75 inches. (Show all work!)

Expected Weight: \_

4. The table below gives the height and shoe sizes of six randomly selected men.

Height	67	70	73.5	75	78	66
Shoe size	85	9.5	1.1	12	13	8



Line of Best Fit Equation:

If a man has a shoe size of 10.5, what would be his predicted height? (Show all work!)

Expected Height: