

Learning Packet #1 Answers

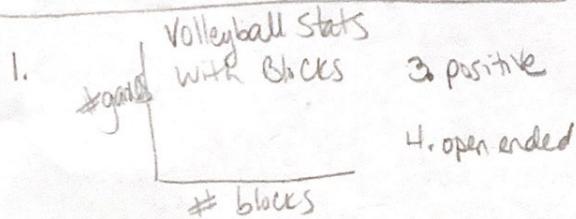
Review #1

a. $5g - 11$ b. $-5x + 24$ c. -6

1. positive
2. no relationship
3. negative
4. negative
5. negative
6. none
7. positive
8. negative
9. positive

Review #2

a. $-6m + 3p - 11$ b. -24 c. -1



Review #3

a. $15w + 13z - 19$ b. 4 c. 4

Make a scatter plot of this data,

Hockey Assists & Goals

Assists (input)	Points (output)
22	28
16	18
46	72
19	29
13	26
9	13
16	22
8	18
12	13
12	17
37	50
7	12
17	34
27	58
18	34

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

Assists

Review #4

a. $-12x - 4y + 2$ b. 36 c. 13

Baseball players

1. About 22 runs in 2015
2. About 155 hits
3. They won't have home runs

Review #5

a. $40W - 27$ b. 144 c. 4

Scatter plot practice

1. As x increases, y decreases
2. The more at bats, the more hits
3. positive association
4. a. about 8820 ft high
b. 1930

Review #6

a. $-10a + 3$ b. 16 c. 2

1. x/y slope is negative

$$\begin{array}{|c|c|} \hline -4 & 1 \\ -2 & 0 \\ 0 & -1 \\ 2 & -2 \\ \hline \end{array}$$

2. $y = -\frac{1}{2}x - 1$

2. positive slope

2. $y = 2x + 1$

3. positive slope

2. $y = \frac{1}{2}x - 1$

4. positive slope

2. $y = 3x + 2$

5. negative slope

2. $y = -3x - 1$

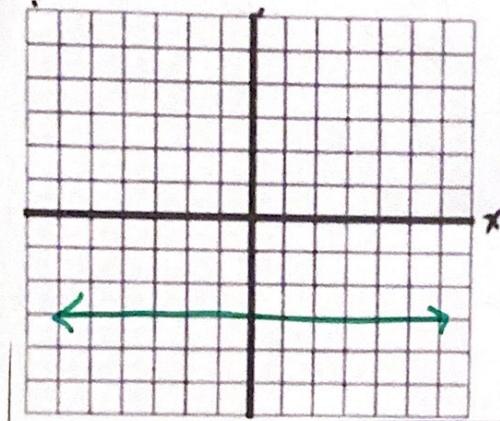
6. positive

2. $y = \frac{4}{3}x - 2$

1. positive
2. $y = \frac{1}{3}x + 2$

1. negative
2. $y = -\frac{3}{2}x + 2$

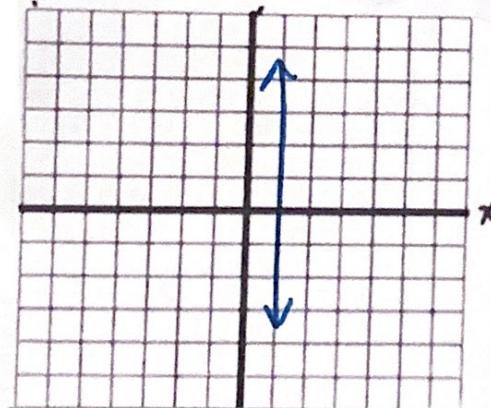
9. Complete the table on the right and then draw the line $y = -3$



x	y
-6	-3
-2	-3
0	-3
5	-3

2. What is the slope of the line? Slope = 0

10. Complete the table on the right and then draw the line $x = 1$

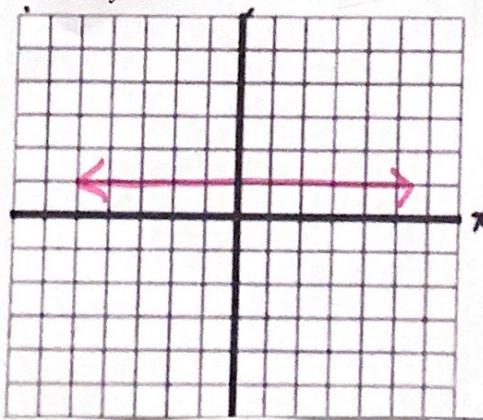


x	y
1	5
1	1
1	-1
1	-2

Slope undefined

2. What is the slope of the line?

11. Complete the table on the right and then draw the line $y = 1$



x	y
-2	1
-1	1
0	1
+2	1

Slope = 0
What is the slope of the line?

Graph A Strong positive
Graph B Strong negative

Graph C No relationship?

Graph D Linear

Graph E Non-linear

Graph F Non-linear

Graph G Non-linear

Graph H Non-linear

Graph I Non-linear

Graph J Non-linear

Graph K Non-linear

Graph L Non-linear

Graph M Non-linear

Graph N Non-linear

Graph O Non-linear

Graph P Non-linear

Graph Q Non-linear

Graph R Non-linear

Graph S Non-linear

Graph T Non-linear

Graph U Non-linear

Graph V Non-linear

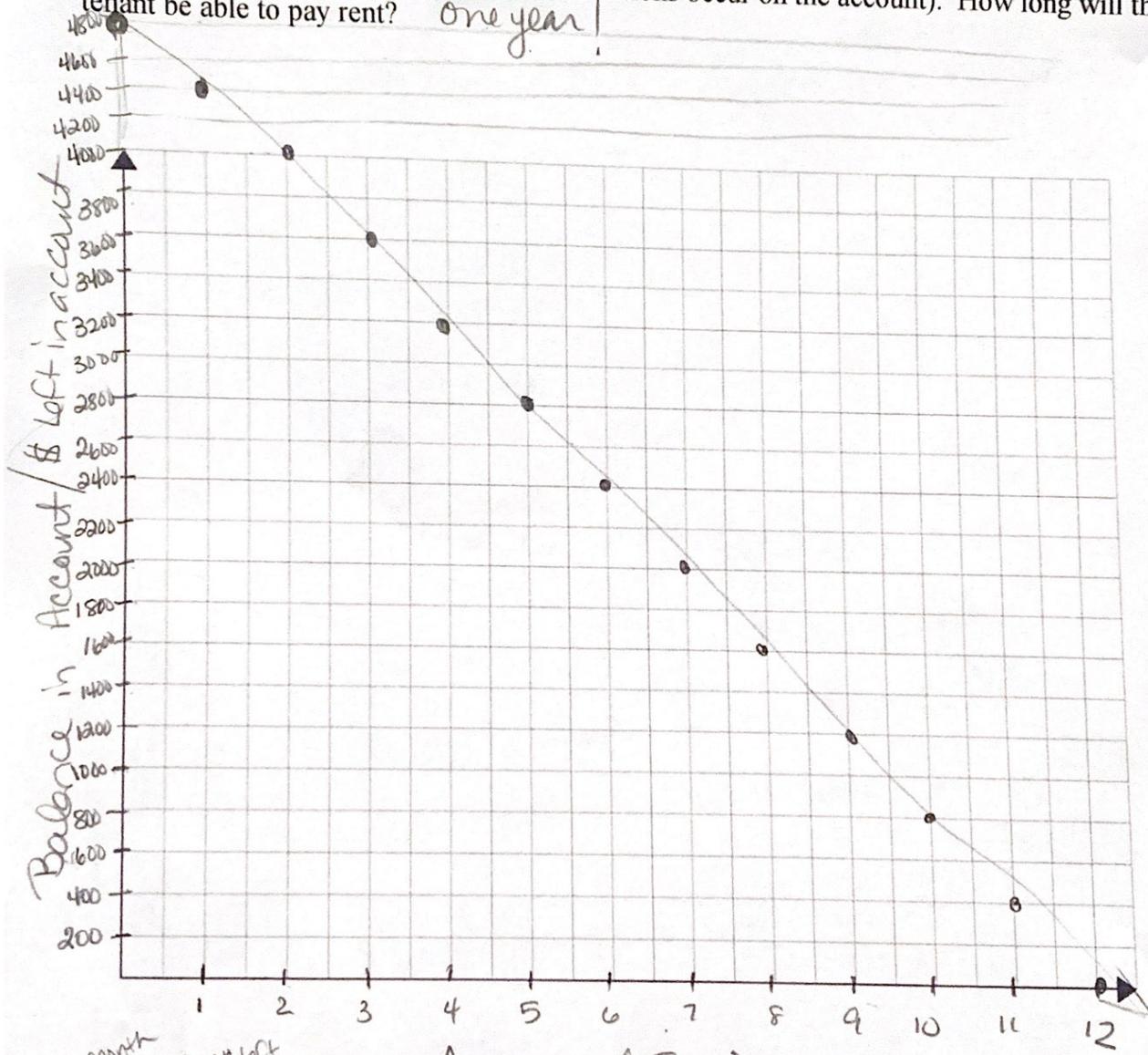
Graph W Non-linear

Graph X Non-linear

Graph Y Non-linear

Graph Z Non-linear

Complete the graph below to determine if the relationship is positive, negative, or none. A checking account is set up with an initial balance of \$4800, and \$400 is removed from the account each month for rent (no other transactions occur on the account). How long will the tenant be able to pay rent? One year!



Month	\$ left	Month (Time)	
X	Y	X	Y
0	4800		
1	4400	8	1600
2	4000	9	1200
3	3600	10	800
4	3200	11	400
5	2800	12	0
6	2400		
7	2000		