Week 5 Homework





Block: BD

1. Gerelt-od and Nathaly start reading books at the same time. Gerelt-od has already read 3 books and begins to read 5 books each week. Nathaly starts with 6 books already read and reads 4 books each week.

- a. Write a system of linear equations to represent the number of books read by Gerelt-Od and Nathaly

 W=# OF Week(S)
 - Gerelt-Od:

• Nathaly:



- 2. Kayla and Arsema start their exercise routines at the same time. Kayla starts with 10 push-ups already done and does 20 push-ups each day. Arsema has 15 push-ups already done and does 15 push-ups each day.
 - a. Write a system of linear equations to represent the number of push-ups Kayla and Arsema are doing: d = # of days
 - Kayla:

$$y = 10 + 20d$$

• Arsema:



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3. Create a table that represents the two following equations in the system of linear equations

below: * Your table 4

ANSWERS WILLYAM
$$y = 0.5x + 12$$

depending on values! $y = 2x + 27$

My solution:

Y= 0.5x +12		y= 2×+27	
X	У	X	y
0	12	0	27
1	12.5	ſ	29
2	13	2	31
3	13.5	3	33
10	17	10	47

4. Create a table that represents the two following equations in the system of linear equations below:

$$egin{cases} y=4x-3 \ y=-2x+9 \end{cases}$$

of your solutions and table work will vary

depending on your table values!

sample:

9= 4x-3		y=-2x+9	
X	У	X	У
0	-3	0	9
2	5	2	5
4	13	4	1
6	21	6	-3
8	29	8	7

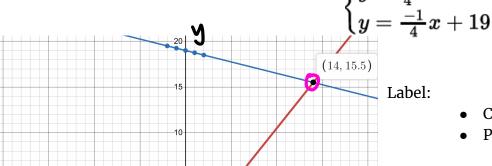
0: 4(0)-3= 0-3=-3 2:4(2)-3= 8-3= 5 4: 4(4)-3= 16-3=13 6: 4(6)-3= 24-3=21 8: 4(8)-3= 32-3=29
0:-2(0)+9 =0+9=9_
2:-2(2)+9=-4+9=5
4:-2(4)+9
=-8+9= <u>1</u> 6:-2(6)+9 =-12+9=-3

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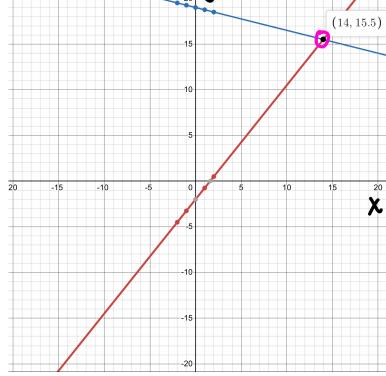
χ	$9 = \frac{5}{4}x - 2$
-2	-4.5
-1	-3.25
0	-2
1	-0.75
2	0.5

5. Solve the system of equations using a graph:



Label:

- Coordinate plane axis
- Point of intersection

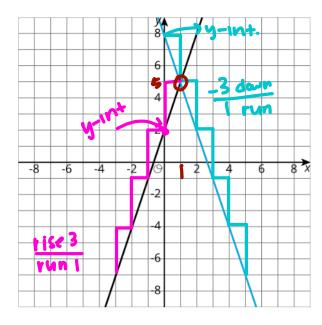


The solution to this system of equations is: ([14], 15.5)

X	$\mathbf{y} = -\frac{1}{4}x + 1$
-2	19.5
-1	19.25
0	19
1	18.75
2	18.5



6. Write Equations to represent each line for the system of equations on the graph in y = mx + bform:



BLUE LINE:

BLACK LINE:

a. Describe how to find the solution to this system of equations by looking at the graph

b. Explain what the graph tells you about the relationship of this system of equations:

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Consider the two following equations:



a.
$$4y - 8x(2) + 7 - (-15) = 12$$

b.
$$2y - \frac{5}{2}x + 7 - (-\frac{4}{3}) = -6$$

a. Rewrite the two linear equations into slope intercept form.

b. Find the slopes of your **new** equations (show your work).



c. Are there intercept(s)? If so, write your solution(s) in coordinate form for both equations.

highlight any intercept. (Create tables if you need help graphing the

values)

0. y = 4x - 2.50. y = 4x - 2.51. y = 4x - 431. y = 4x - 432. y = 4x - 433. y = 4x - 434. y = 4x - 435. y = 4x - 436. y = 4x - 436. y = 4x - 437. y = 4x - 438. y = 4x - 438. y = 4x - 439. y = 4x - 431. y = 4x - 432. y = 4x - 433. y = 4x - 434. y = 4x - 432. y = 4x - 433. y = 4x - 434. y = 4d. Graph both of the following equations, label your lines, and



