Week 5 Homework

Name:		Block:

- 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
 - 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:
 - Kayla:
 - Arsema:



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

below:

$$egin{cases} y=0.5x+12\ y=2x+27 \end{cases}$$



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

below:

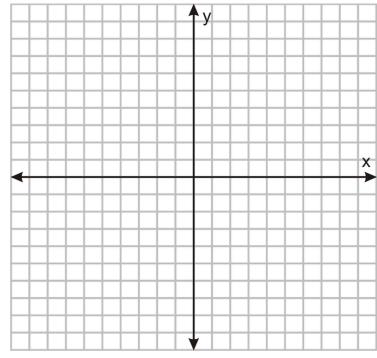
$$egin{cases} y=4x-3 \ y=-2x+9 \end{cases}$$



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5. Solve the system of equations using a graph:
$$egin{dcases} y=rac{5}{4}x-2 \ y=rac{-1}{4}x+19 \end{cases}$$



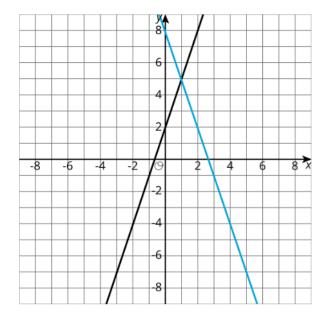
Label:

- Coordinate plane axis
- Point of intersection

The solution to this system of equations is: (_____, ____)



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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7. 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.
- d. Graph both of the following equations, label your lines, and highlight any intercept. (Create tables if you need help graphing the values)

