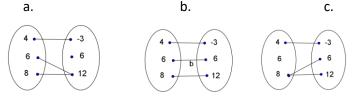
- Name
 - 1. Name the six ways to show a relation between inputs and outputs.
 - 2. Which method of showing a relation does not provide the inputs or outputs?
 - 3. Convert the following equation into a table of values for the following inputs: $y = \frac{-2}{3}x + 1$

х	-12	-6	0	6
у				

4. Which of the following are not functions? If it is not a function, explain why it is not.

a.				
х	5	7	9	5
у	3	4	5	6
b.				
х	3	4	5	6
у	3	4	5	6
C.				
х	-2	-2	-2	-2
у	5	4	5	6

- 5. What is the domain of the relation given in table "a" in problem #4?
- 6. What is the range of the relation given in table "b" in problem #4?
- 7. Which of the following are not functions? If it is not a function, explain why it is not.
 a. {(2, 3), (3, 4), (4, 5)}
 b. { (-1, 5), (7, 3), (-1, 5) }
 c. { (-6, 8), (-6, 9), (-1, 5) }
- 8. Which of the following are not functions? If it is not a function, explain why it is not.



9. What is the equation of the line that fits through the following data?

х	-4	-2	0	2	4	6	8
у	-6	-2	2	6	10	14	18

10. What is the equation of the line that fits through the following data?

х	-1	1	3	5	7	9	11
у	8	4	0	-4	-8	-12	-16

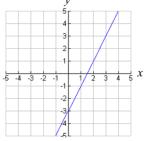
11. Fill in the following table for the equation y = 3x - 4

х	-3	-2	-1	0	5	9	11
У							

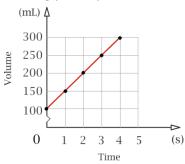
12. Fill in the following table for the equation 2x - 3y = 6

х	-3		-1		0		5
У		-4		0		3	

- 13. Convert the following "standard form" equation of a line into "slope intercept form." 2x 3y = 6
- 14. Write the equation of the line graphed below.



- 15. (a) write the equation that is represented by the graph
 - (b) Is the volume increasing or decreasing with time?
 - (c) Is the slope positive or negative?
 - (d) What are the "units" of input variable?
 - (e) What quantity is represented by output variable?
 - (f) Using your equation, determine what the volume will be at t=20.



- 16. Re-write the following equation into "y as a function of x". -5x + 15y = 30
- 17. Write the equation of a line whose slope is $\frac{2}{5}$ and whose y-intercept is 6.
- 18. Write the equation of a line that passes through the following two points: (0, 5), (7, 10)
- 22. What is the equation of a horizontal line that passes through the ordered pair (3, -5)?
- 19. What is the equation of a vertical line that passes through the ordered pair (-2, 6)?