

6.1 CA Equations, Tables, & Graphs

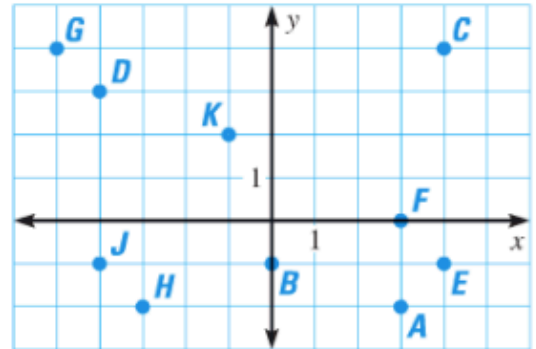
Introduction to Linear Relationships

NAME: _____

DATE: _____

Give the coordinates and location of the following points.

Point	Coordinate	Location
G		
D		
K		
H		
F		
B		

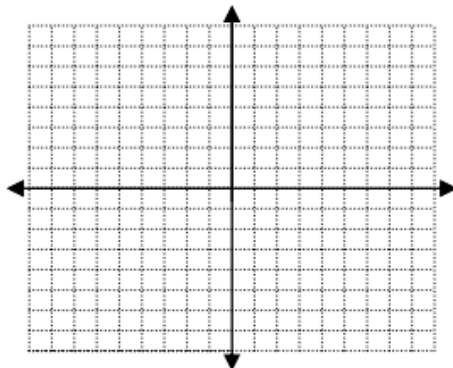


Tell whether the ordered pair is a solution to the equation. SHOW ALL STEPS!!!

1. $4x + 2y = 24$ $(-2, 16)$	2. $4x - 2y = -32$ $(5, -24)$	3. $-x + 3y = 18$ $(-5, 4)$	4. $4x - 2y + 2 = 24$ $(0, 13)$
5. $4 + 2y = -5x$ $(3, -9)$	6. $4 = 2y - 7x$ $(6, 19)$	7. $12 - 4x = 7y$ $(3, 0)$	8. $4y - 6 = 3x$ $(8, 8)$

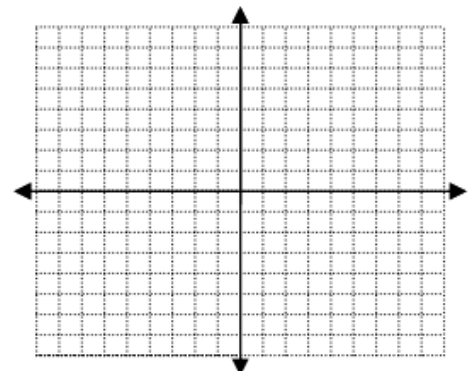
9. a)

x	y
-2	-5
0	-1
2	3
4	7

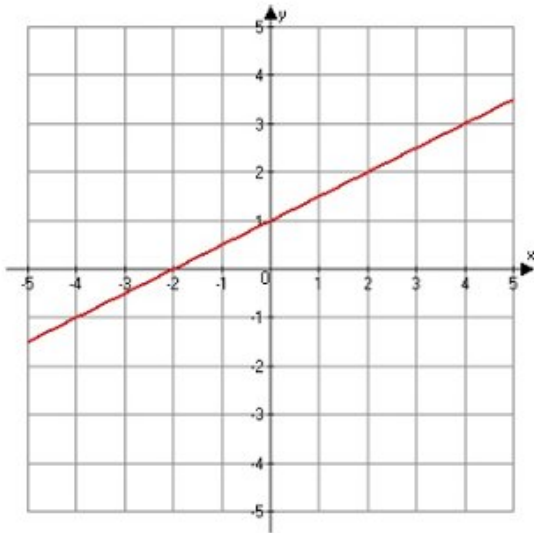


b)

x	y
0	-2
1	-2
2	-2
3	-2



10)



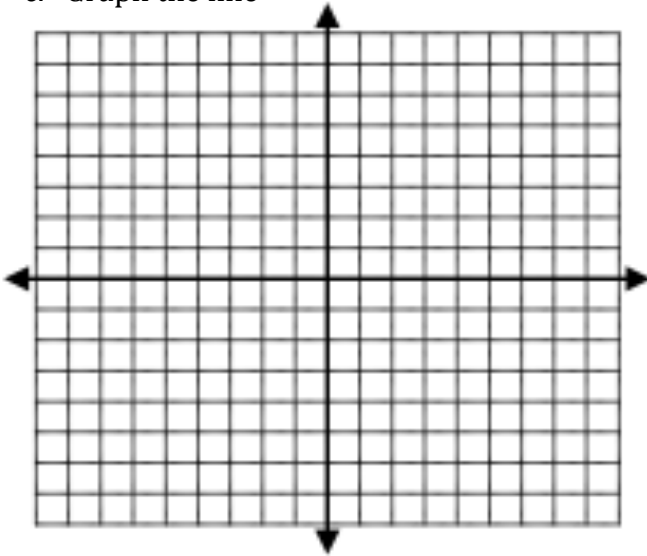
x	y

11) a. Identify the Domain and Range:

Input, x	1	2	3	4
Output, y	5	10	15	20

b. Make a rule for the function in a.

c. Graph the line



13) a. Identify the Domain and Range:

Input, x	10	14	18	22
Output, y	3	7	11	15

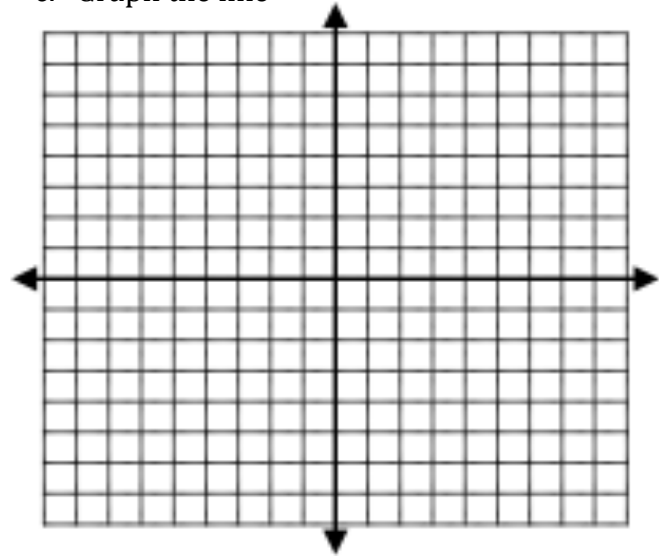
b. Make a rule for the function in a.

12) a. Identify the Domain and Range:

Input, x	-6	-4	-2	0
Output, y	0	2	4	6

b. Make a rule for the function in a.

c. Graph the line



14) a. Identify the Domain and Range:

Input, x	8	11	14	17
Output, y	16	22	28	34

b. Make a rule for the function in a.

Given the equation, fill in the table.

15. Fill in the table if $y = 2x - 5$

x	y
-2	
-1	
0	
1	
2	

16. Fill in the table if $y = -2x + 5$

x	y
-2	
-1	
0	
1	
2	

17.

Fill in the table if $y = 10 - 3x$

x	y
-2	
-1	
0	
1	
2	

18. Fill in the table if $y = 7 - 3x$

x	y
-2	
-1	
0	
1	
2	

19. Fill in the table if $y = -6 + 4x$

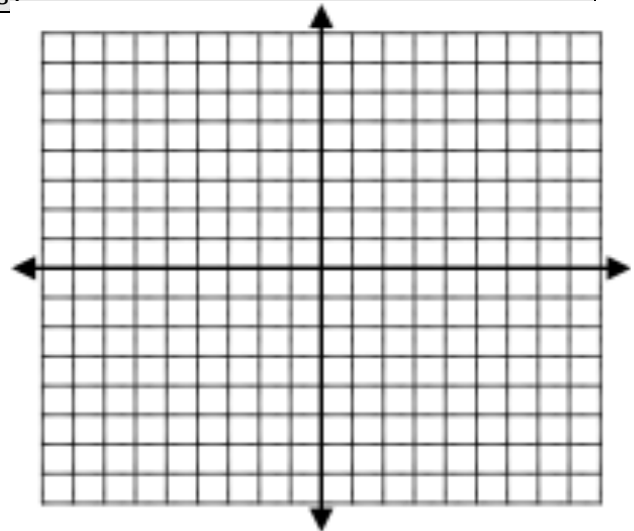
x	y
-2	
-1	
0	
1	
2	

Fill in the table and graph.

(Hint: Pick values that will give you nice/clean outputs)

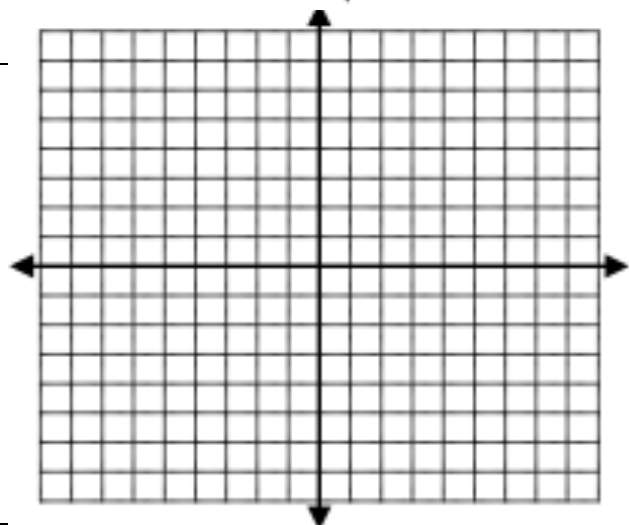
20. $y = \frac{2}{7}x - 1$

<i>Domain</i>		<i>Range</i>
x		y



21. $y = -\frac{4}{5}x + 2$

<i>Domain</i>		<i>Range</i>
x		y



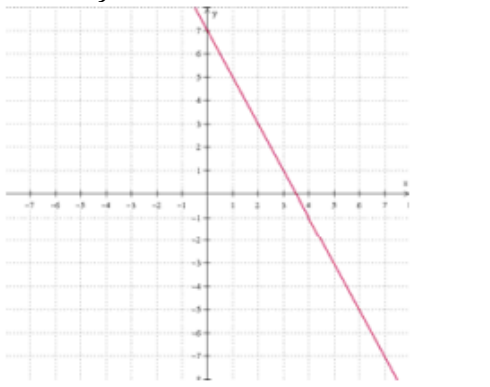
ANSWERS TO CORRECTIVE ASSIGNMENT:

Make sure you check all your answers and make sure you KNOW how to do all of them. You could simply copy answers but that's not the point. The point is that you have to learn how to do this so please make sure that for any you don't understand you get help BEFORE taking the Mastery Check again.

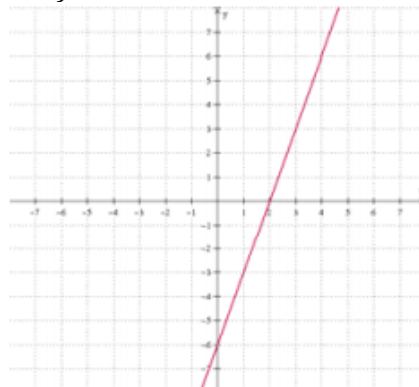
Point	Coordinate	Location
<i>G</i>	(-5,4)	Quadrant II
<i>D</i>	(-4, 3)	Quadrant II
<i>K</i>	(-1,2)	Quadrant II
<i>H</i>	(-3,-2)	Quadrant III
<i>F</i>	(3,0)	<i>x</i> -axis
<i>B</i>	(0,-1)	<i>y</i> -axis

1. yes	2. no	3. no	4. no
5. no	6. no	7. yes	8. no

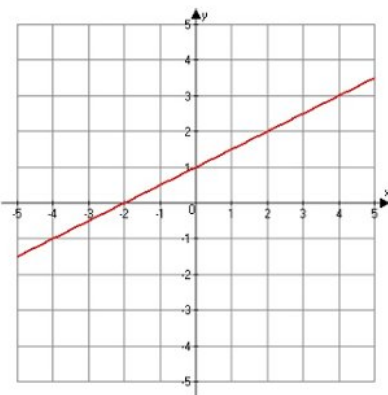
9. a)



b)



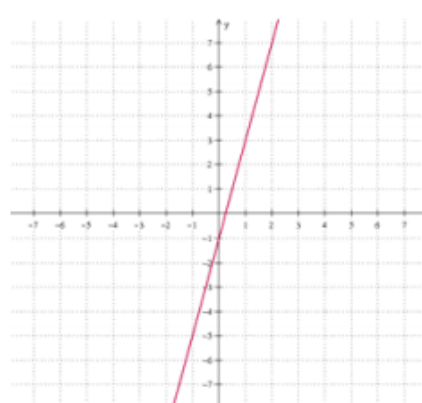
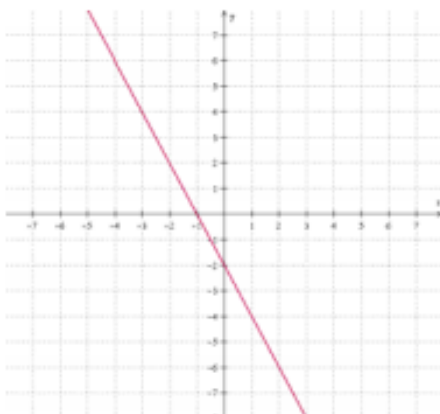
10)



<i>x</i>	<i>y</i>
-4	-1
-2	0
0	1
2	2
4	3

11) $D = \{1, 2, 3, 4\}$
 $R = \{5, 10, 15, 20\}$
 $Y = 5x$

12) $D = \{-6, -4, -2, 0\}$
 $R = \{0, 2, 4, 6\}$
 $Y = x + 6$



13) $D = \{10,14,18,22\}$

$R = \{3,7,11,15\}$

$y = x - 7$

15.

x	y
-2	-9
-1	-7
0	-5
1	-3
2	-1

14) $D = \{8,11,14,17\}$

$R = \{16,22,28,34\}$

$y = 2x$

16.

x	y
-2	9
-1	7
0	5
1	3
2	1

17.

x	y
-2	16
-1	13
0	10
1	7
2	4

18.

x	y
-2	13
-1	10
0	7
1	4
2	1

19.

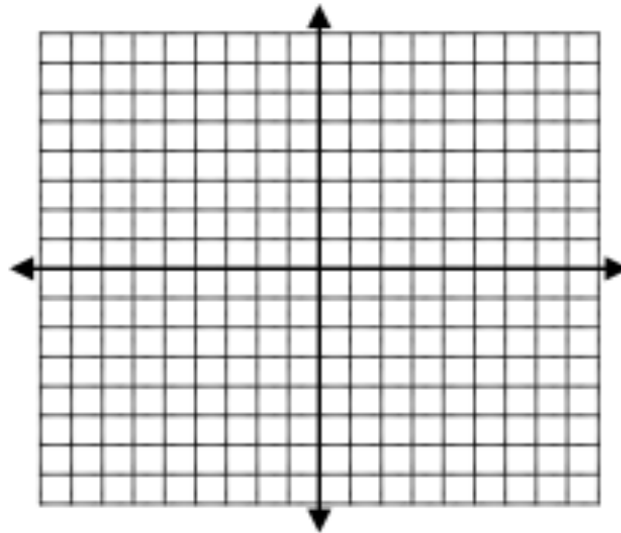
x	y
-2	-14
-1	-10
0	-6
1	-2
2	2

Fill in the table and graph.

(Hint: Pick values that will give you nice/clean outputs)

22. $y = \frac{2}{7}x - 1$

x	y
-14	-5
-7	-3
0	-1
7	1
14	3
21	5



23. $y = -\frac{4}{5}x + 2$

x	y
-10	10
-5	6
0	2
5	-2
10	-6
15	-10

