Chapter 4.1 – 4.3 Quiz: Linear Relations

- 1. The pattern in the table below continues.
 - a) Write an equation that relates v to t.

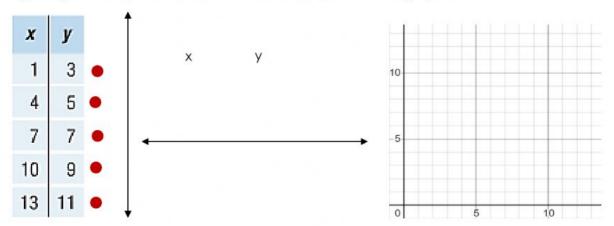
Term Number, t	Equation: =	Term Value, v
1	=	7
2	=	11
3	=	15
4	=	19
20	_=	
	=	51

- **b)** Find the term value of the 20th term. *show your answer in the chart
- c) Which term would have a value of 51? *show your answer in the chart
- 2. A taxi company charges a fixed rate of \$3 plus \$1.50 per kilometer.
 - a) Create table of values to show the total you would pay for the first 4 kilometers.

number of km, x	Equation: =	total paid, y
1	=	
2	_=	_
3	_=	
4	_=	-
15	_=	
	=	40.50

- b) How much would it cost to drive 15 km? *show your answer in the chart
- c) How far did you go if the total was \$40.50? *show your answer in the chart

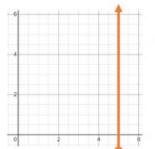
- 3. Graph the following linear relation using all the information in the table.
 - a) Drag and drop the arrows and the variables x and y to label the x and y axes.
 - b) Drag and drop the red dots to the correct point on the graph.



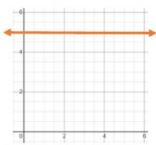
- 4. Classify the following lines as Vertical, Horizontal or Oblique.
 - **a)** x = 2
 - _____
- **b)** y = 4
- رع ر
- **c)** y = 2x + 3
 - **C)** y = 2x + 3
- **d)** x + 5 =

- **d)** -3 = y
- **f)** 14x + 7y = 21
- **g)** -3x + y = 9
- **h)** y + 2 = 3

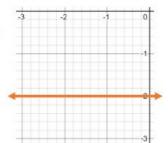
- 5. Which equation describes each graph below?
 - a)



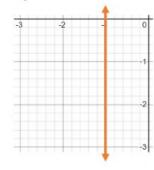
b)



c)



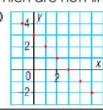
d)

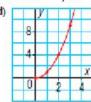


6. Indicate which of the following are linear and which are non-linear. Explain how you know.

a)	Х	У
	-2	2
	0	8
	2	16
	4	32

b) [Х	У
	1	-3
	2	-6
	3	-9
	4	-12





e)	x -	3y =	= 2	
				2

f)	X2	_	3 <i>x</i>	+	2	=	y
\bigcap							

g) (2,	6), (1,	8), (0	, 10),	(-1, 12)
)

h)(5,	10),(10, 5),(5, 0),(10, -5)