

Grade 9 Math Unit 4: Linear Relations REVIEW

Name: _____

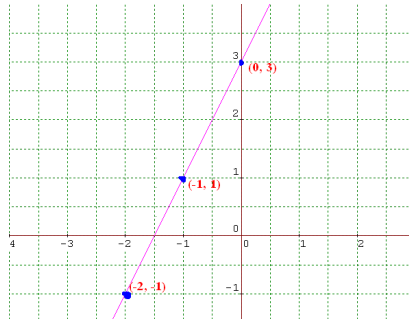
Class: _____

NO CALCULATOR. _____ / 13 = _____ + ____ (BONUS) = _____ %

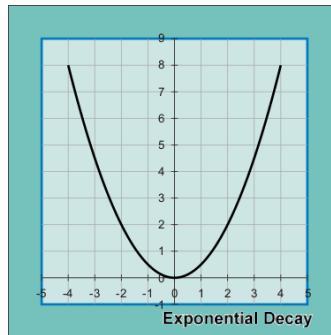
SHOW your WORKINGS)

1. Identify the type of graph.?

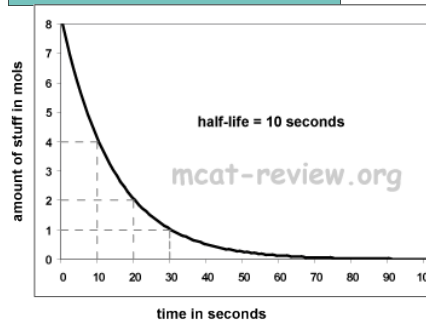
A) _____



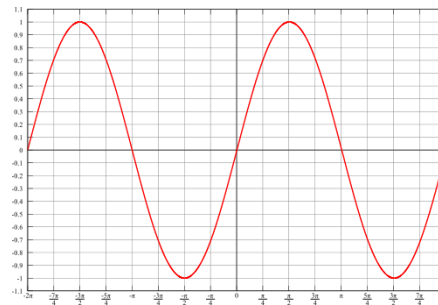
B) _____



C) _____



D) _____



x	y
-5	8
-4	10
-3	12
-2	14
-1	16

2. Type of graph in table above: _____

B) why? _____

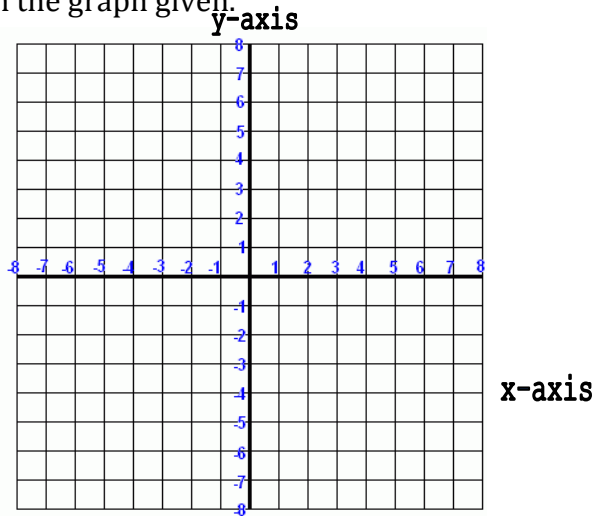
C) Type of data: _____ CONTINUOUS

D) Why? _____ no restrictions

3. Graph and label each of the following on the graph given.

THEN identify the type of line:
Vertical, oblique, horizontal

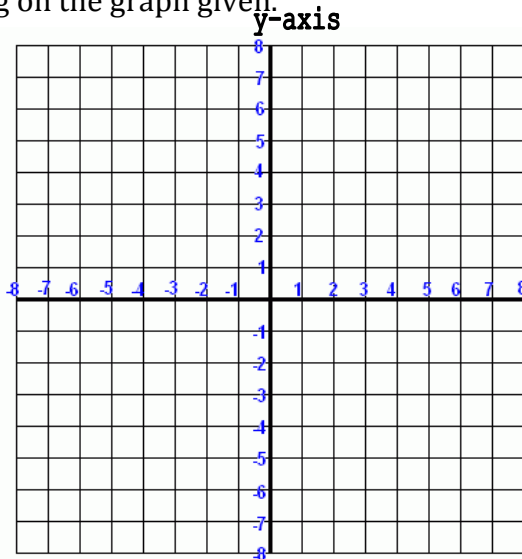
- A) _____
- B) _____
- C) _____
- D) _____



4. Graph and label each of the following on the graph given.

THEN identify the type of line:
Vertical, oblique, horizontal

- A) _____
- B) _____
- C) _____
- D) _____



5. Given the table,

x	y
1	1
2	3
3	5
4	7
5	9

A) what is the first level of difference? _____

B) Type of graph: _____

C) Why? _____

D) Type of data? _____

E) Why? _____

F) The equation which show the relation between x and y:

6. Define :

A) Extrapolate: _____

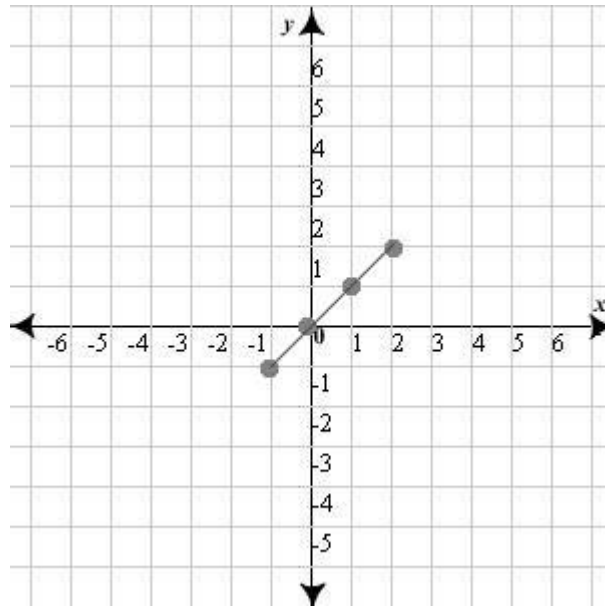
B) Interpolate: _____

C) Discrete data: _____

D) Continuous Data: _____

7. A) Create a table from this graph.

x	y



B) Interpolate from the graph y if x = 1.5.

C) Extrapolate from the graph y if x=5.

D) Type of graph: _____

E) Why? _____

F) Type of data: _____

G) Why? _____

8. Identify the equation for each graph?

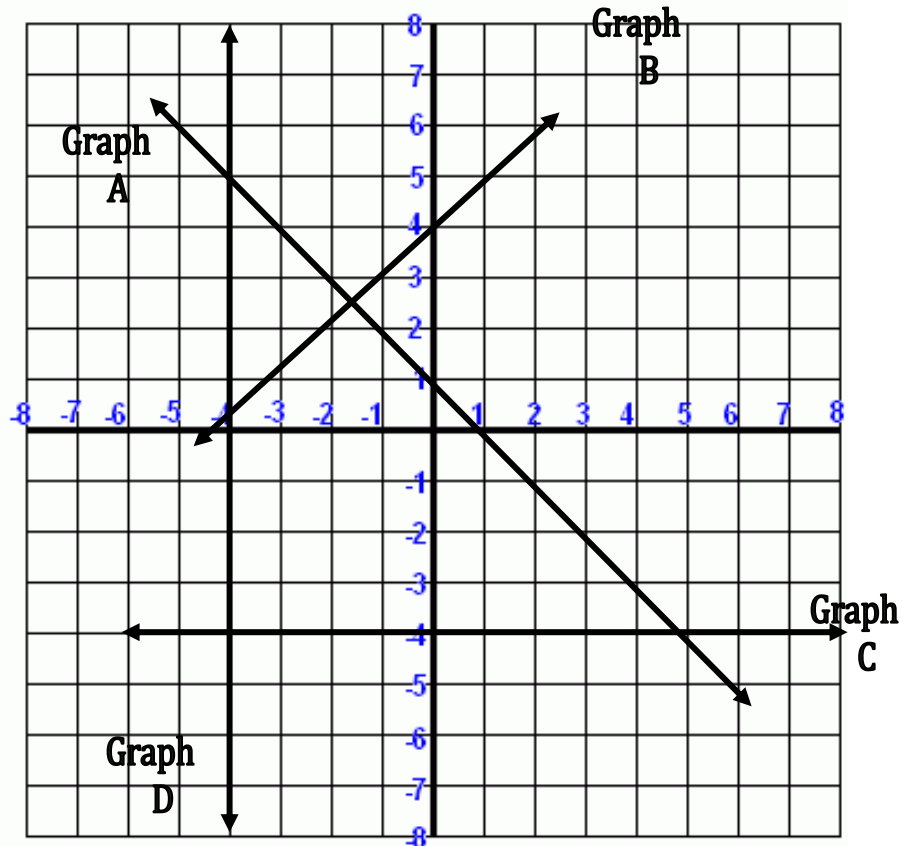
A) Graph A

B) Graph B

C) Graph C

D) Graph D

CHOICES: $y = x + 4$



9. To get a cab it costs Mark \$4.00 sitting fee and \$1.50 per kilometre.

A) What is the relation as an equation using c for cost and d for kilometre?

B) How much does it cost mark if he travels 11 kilometers?

10. Given the equations below, what kind of line is each one: HORIZONTAL, OBLIQUE or VERTICAL?

EQUATION	TYPE OF LINE?
A)	
B)	
C)	
D)	
E) $x + y = 12$	
F) $y = 4$	
G)	

11. A) Given the table below, why is this a linear graph?

	y
0	-3
1	1
2	5
3	9
4	13

B) What kind of data does this linear graph contain? _____
 How do you know? Explain.

12. Complete the following using the following table.

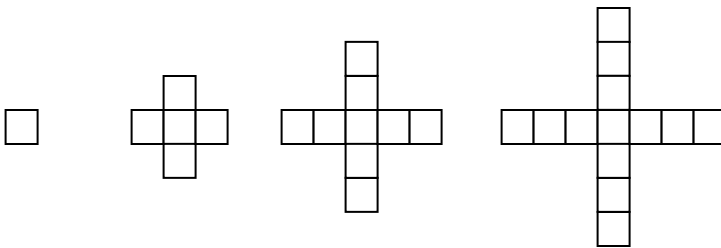


Figure 1

Figure 2

Figure 3

Figure 4

A) **DRAW FIGURE 5**

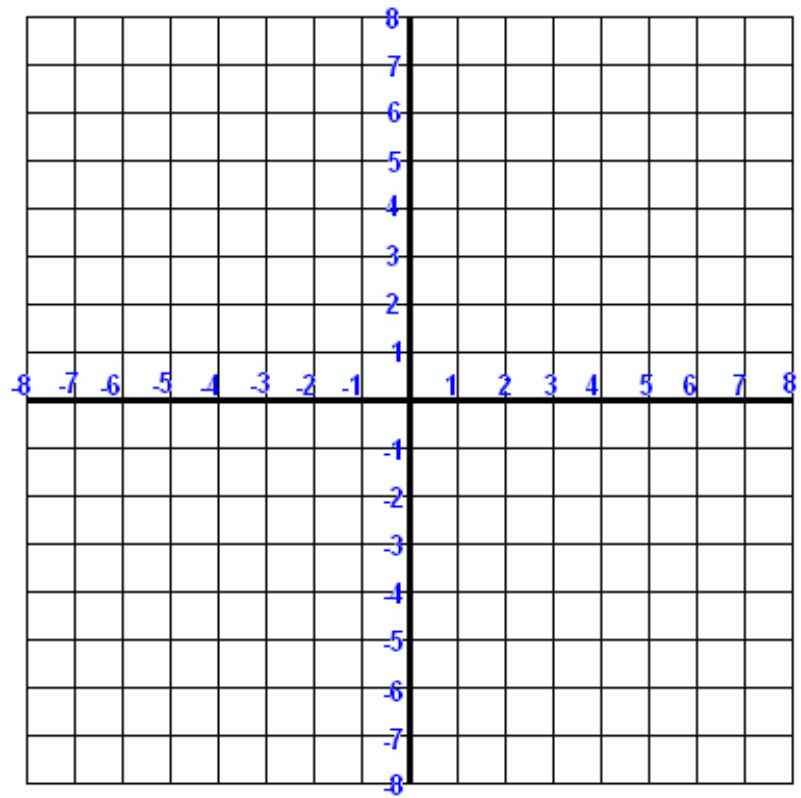
B) Complete the table.

Figure number (n)	Number of squares (s)
1	
2	
3	

B) Write the equation that relates the number of squares to the figure number.

C) How many squares are there in Figure 10?

13. A) Create a table of values for



B) Plot the data from the table

In A) on the graph provided.