Date: _____

BLM 9-10

Chapter 9 Test

For #1 to #5, select the best answer.

- **1.** Which word describes y = x + 2?**A** constant**B** equation**C** expression
- **2.** The table shows the number of lug nuts in relation to the number of tires. Which equation represents the linear relation?

В

X

0

1

2

3

4

A n = t + 5 **B** t = n + 5 **C** n = 5t**D** t = 5n

Tires (t)	Lug Nuts (<i>n</i>)
1	5
2	10
3	15
4	20

D variable

3. Which table of values represents the graph shown?

Y

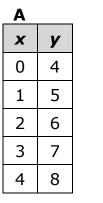
4

5

6

7

7

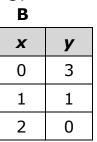


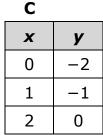
_	L	
	x	y
	0	4
	1	5
	2	7
	З	6
	4	8

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8 -							
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4 -							
2							
2 -							
 0							x
 		 1		·····	2	 	

4. Which table of values represents the linear relation represented by the equation y = 2x - 3?

Α	
x	y
0	3
1	5
2	1





x	Y
0	-3
1	-1
2	1

D

 y
 x
 y
 6

 4
 0
 4
 4

 5
 1
 6
 4

2

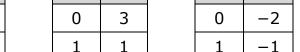
3

4

6

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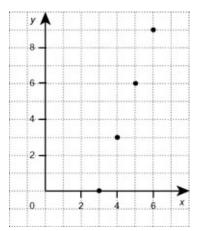




5. Which equation represents the graph shown?

A y = 3 - x **B** y = x - 3**C** y = 2x - 6

D
$$y = 3x - 9$$



Short Answer

6. Copy and complete the following tables.

a)		b)		c)		d)	
y = 4	4 – <i>x</i>	y = x + 5		y = 2x			
X	y	x	Y	x	y	x	Y
0		-3			0		-6
1			4		2	-1	
2		0			4		0
3		1			8	1	
4			8		16		6

7. a) Draw and label a graph of the equation y = 3x - 2, for x = 1, 2, 3, and 4.
b) Is it a linear relation? Use two ways to explain your answer.

Extended Response

- **8.** Tina began riding her all-terrain vehicle (ATV). After 5 s, her speed was 10 km/h. After 10 s, her speed was 25 km/h. After 15 s, her speed was
 - 30 km/h. After 20 s, her speed was 35 km/h.
 - **a)** Make a table of values that represents Tina's ATV ride.
 - **b)** Graph the table of values.
 - c) Is there a linear relation between time and speed during Tina's ATV ride? Explain.
 - **d)** What must happen for there to be a linear relation between time and speed?