Name: _____ 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 **D** variable

2. The table shows the number of lug nuts in relation to the number of tires. Which equation represents the linear relation?

A $n = t + 5$

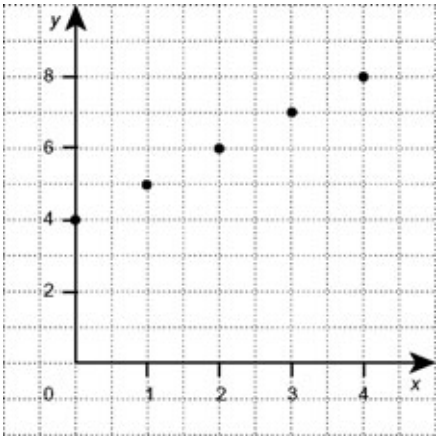
B $t = n + 5$

C $n = 5t$

D $t = 5n$

Tires (t)	Lug Nuts (n)
1	5
2	10
3	15
4	20

3. Which table of values represents the graph shown?



A

x	y
0	4
1	5
2	6
3	7
4	8

B

x	y
0	4
1	5
2	6
3	7
4	7

C

x	y
0	4
1	5
2	7
3	6
4	8

D

x	y
0	4
1	6
2	6
3	7
4	8

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

A

x	y
0	3
1	5
2	1

B

x	y
0	3
1	1
2	0

C

x	y
0	−2
1	−1
2	0

D

x	y
0	−3
1	−1
2	1

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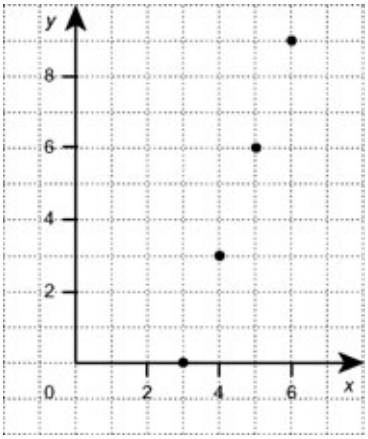
(continued)

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)

$y = 4 - x$	
x	y
0	
1	
2	
3	
4	

b)

$y = x + 5$	
x	y
−3	
	4
0	
1	
	8

c)

$y = 2x$	
x	y
	0
	2
	4
	8
	16

d)

x	y
	−6
−1	
	0
1	
	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?