

Co-Teach
Algebra I
Test #1 Review

Name: _____

Date: _____

Hour: _____

Chapter 1 Review

Find the next three terms of the sequence, then explain the pattern.

1.) 1, 4, 7, 10, 13, _____, _____, _____.

The pattern is _____

2.) 1, 4, 16, 64, 256, _____, _____, _____.

The pattern is _____

3.) 27, 9, 3, $1, \frac{1}{3}$, _____, _____, _____.

The pattern is _____

Find the next two terms of each sequence.

4.) 1, 5, 11, 19, 29, _____, _____.

5.) 1, 1, 6, 16, 31, _____, _____.

6.) 90, 70, 54, 42, 34, _____, _____.

Make a table to show the substitutions of the values 1, 2, 3, 4, 5 for the variables.

7.) Find the values of $10y$ by substituting for y .

y	1	2	3	4	5
$10y$					

8.) Find the values of $8t - 2$ by substituting for t .

t	1	2	3	4	5
$8t - 2$					

9.) Use the table from #8 to solve the equation $8t - 2 = 14$.

$$t =$$

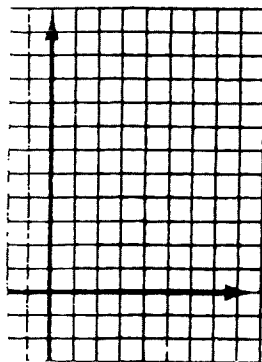
For numbers 10 - 12, simplify using the order of operations.

10.) $17 - 4 \cdot 3$

11.) $32 - 24 \div 6 - 4$

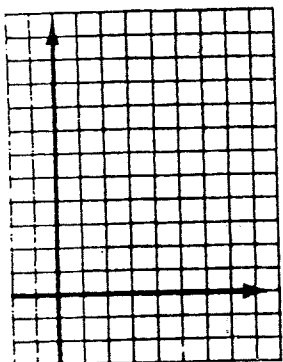
12.) $3 \cdot 4^2 - [24 \div (6 - 4)]$

13.) Graph the ordered pairs $(7, 2)$, $(1, 4)$ and $(3, 5)$. Tell whether they lie on a straight line.

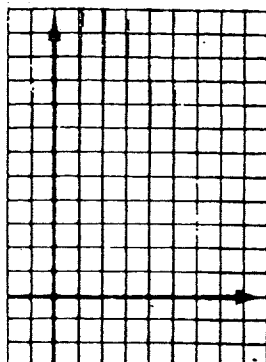


For numbers 14- 18, graph each list of ordered pairs and tell whether they lie on a straight line.

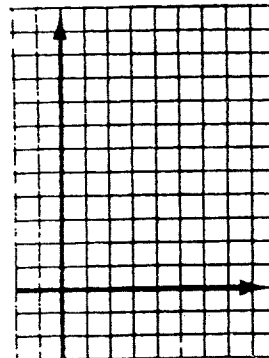
14.) (1, 2) (2, 3) (3, 4)



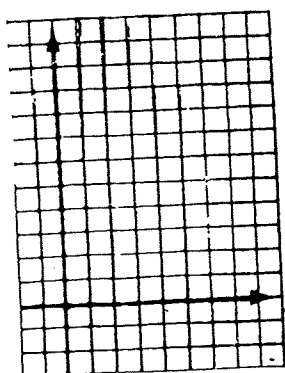
15.) (2, 5) (4, 2) (5, 2)



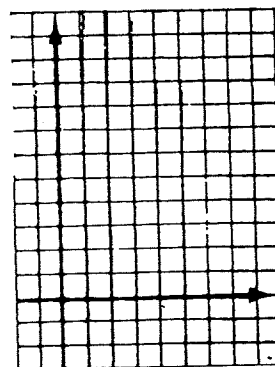
16.) (1,3) (1, 4) (3, 5)



17.) (0, 1) (1, 2) (3, 6)



18.) (4,1) (4, 5) (4, 9)



Chapter 1 Review #2

Find the next three terms of each sequence. Show your work!

1) 4, 8, 16, 32, 64, _____, _____, _____

2) 49, 40, 32, 25, 19, _____, _____, _____

3) If the second differences of a sequence are a constant 5, the second of the first differences is 11 and second term is 12, find the first 5 terms of the sequence.

_____ / _____ / _____ / _____ / _____
 _____ / _____ / _____ / _____
 _____ / _____ / _____

If notebooks cost \$0.59, find the cost of the following.

4) 2 notebooks

5) 5 notebooks

6) 12 notebooks

7) Write an equation to model the price of notebooks. _____

8) How many notebooks can you get for \$14.75? _____

9) Find the values of $9x - 5$ by substituting 1, 2, 3, 4, and 5 for x. Complete the table.

x						
$9x - 5$						

Evaluate using the order of operations. Show your work.

10) $3 + 27 \div 3^2 - (7 - 5)$

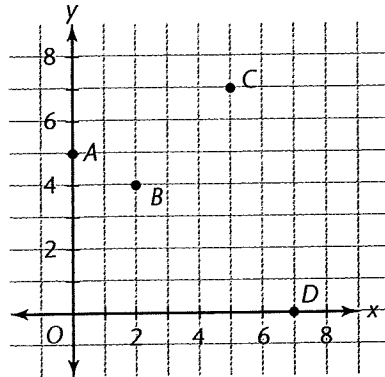
What are the coordinates of the given points?

12) A

13) B

14) C

15) D



Teri drives at an average rate of 55 mph.

16) Complete the table for the miles Teri has driven.

Hours	0	1	2	3	4	5
Miles						

17) Represent hours by h , and distance by m . Write an equation for the distance.

18) Graph the coordinate points from the table.

