

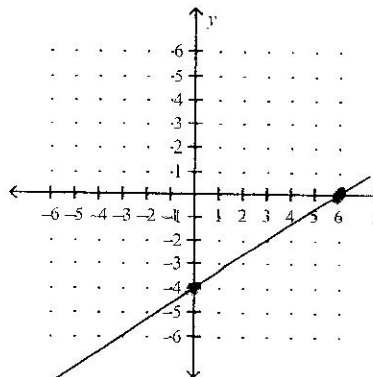
Work Sheet For 12/4/14

DO NOT WRITE ON WORKSHEET!  
CANNOT TAKE HOME!

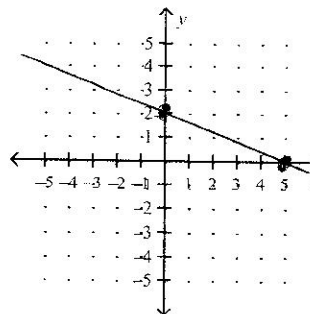
Short Answer

1. 7, 11, 15, 19, ...  
a) Write an equation for the sequence above. b)  
Find the 40th term.  
(hint: substitute 40 for x in your equation to find y)
2. -7, 0, 7, 14, ...  
a) Write an equation for the sequence above. b)  
Find the 40th term.  
(hint: substitute 40 for x in your equation to find y)
3. 3, 11, 19, 27, ...  
a) Write an equation for the sequence above. b)  
Find the 40th term.  
(hint: substitute 40 for x in your equation to find y)
4. 10, 5, 0, -5, ...  
a) Write an equation for the sequence above. b)  
Find the 40th term.  
(hint: substitute 40 for x in your equation to find y)
5. What is the slope of the line that passes through the points (1, 2) and (5, 5)?
6. What is the slope of the line that passes through the points (6, 2) and (5, 9)?
7. What is the slope of the line that passes through the points (1, 7) and (8, 5)?
8. What is the slope of the line that passes through the points (6, 6) and (1, 5)?
9. What is the slope of the line that passes through the points (2, 4) and (7, 7)?

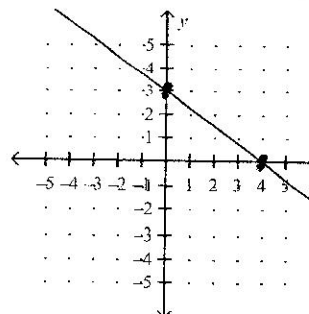
10. Calculate the slope of the line in the following graph. Then, write an equation for the line.



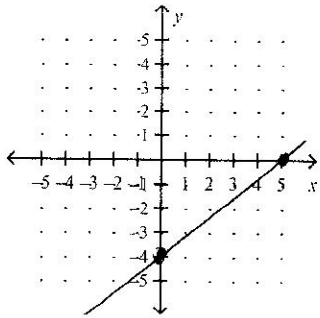
11. Calculate the slope of the line in the following graph. Then, write an equation for the line.



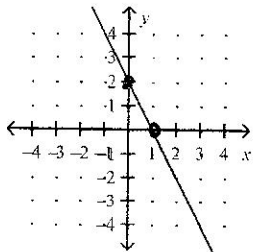
12. Calculate the slope of the line in the following graph. Then, write an equation for the line.



13. Calculate the slope of the line in the following graph. Then, write an equation for the line.



14. Calculate the slope of the line in the following graph. Then, write an equation for the line.



15. The following table shows the relationship between wicker baskets and how much they cost.

Number of Baskets	Cost
8	\$16
9	\$18
13	\$26
14	\$28
15	\$30

- a) What is the constant rate of change?  
 b) Write an equation for this information.

16. The following table shows the relationship between wicker baskets and how much they cost.

Number of Baskets	Cost
2	\$8
3	\$12
7	\$28
9	\$36
10	\$40

- a) What is the constant rate of change?  
 b) Write an equation for this information.

17. The following table shows the relationship between the length of a shelf and the number of books it will hold.

Length (in)	Books
14	28
16	32
17	34
19	38
20	40

- a) What is the constant rate of change?  
 b) Write an equation for this information.

18. The following table shows the relationship between the length of a shelf and the number of books it will hold.

gallons of gas used	miles traveled
1	23
2	46
3	69
4	92

- a) What is the constant rate of change?  
 b) Write an equation for this information.

# 19-23

MUST BE

ON GRAPH PAPER!

19. Graph the following equation (must complete a table like the one on the board)

$$y = 3x - 2$$

Name: \_\_\_\_\_

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20. Graph the following equation (must complete a table like the one on the board)

$$y = 5x - 7$$

21. Graph the following equation (must complete a table like the one on the board)

$$y = -2x - 3$$

22. Graph the following equation (must complete a table like the one on the board)

$$y = 4x - 9$$

23. Graph the following equation (must complete a table like the one on the board)

$$y = -3x + 4$$