

## Graphing a Linear Equation (from a table) (page 1)

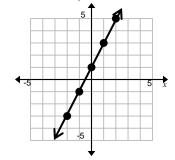
The **graph** of an equation in two variables is the set of all points the represent the solutions of the equation. If the graph of the equation is a line, then it is called a **linear equation**.

*Procedure:* 

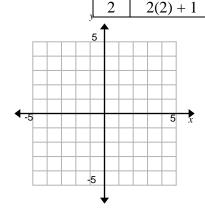
- 1) Make a table of solutions.
- 2) Graph the solutions as ordered pairs.
- 3) Draw a line that contains the points.

х	2x + 1 =	у
-2	2(-2) + 1	-3
-1	2(-1) + 1	-1
0	2(0) + 1	1
1	2(1) + 1	3

Example: Graph y = 2x + 1.



$\boldsymbol{x}$	у
-2	
-1	
0	
1	
2	



Name \_\_\_\_\_ Period\_ Date\_\_



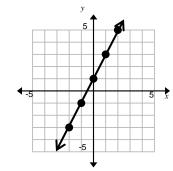
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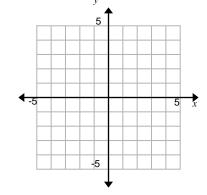
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-1	2(-1) + 1	-1
0	2(0) + 1	1
1	2(1) + 1	3
2	2(2) + 1	5



1. Graph 
$$y = 2x - 1$$

x	у
-2	
-1	
0	
1	
2	



## Graphing a Linear Equation (from a table) (page 2)

2. Graph y = -x - 2

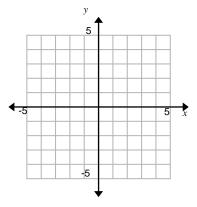
х	у
-2	
-1	
0	
1	
2	

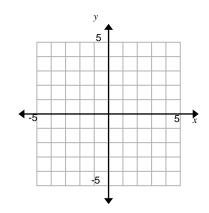
3. Graph y = -2x - 1

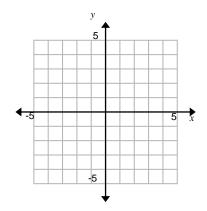
х	у
-2	
-1	
0	
1	
2	

4. Graph  $y = \frac{1}{2}x - 1$ 

х	у
-4	
-2	
0	
2	
4	







## Graphing a Linear Equation (from a table) (page 2)

2. Graph y = -x - 2

X	у
-2	
-1	
0	
1	
2	

3. Graph y = -2x - 1

х	у
-2	
-1	
0	
1	
2.	

4. Graph  $y = \frac{1}{2}x - 1$ 

х	у
-4	
-2	
0	
2	
4	

