

Mathematics 9  
 Ordered Pairs in Tables

Date: \_\_\_\_\_

Complete the tables of values for each of the equations below.  
 Then graph each on the paper provided.

1.  $y = x$

x	y
5	5
7	7
-6	-6
0	0

2.  $y = x - 3$

x	y
1	$(1) - 3 = -2$
5	$(5) - 3 = 2$
-4	$(-4) - 3 = -7$
0	$(0) - 3 = -3$

3.  $y = 4x$

x	y
-2	$4(-2) = -8$
0	$4(0) = 0$
1.5	$4(1.5) = 6$
-1.75	$4(-1.75) = 7$

4.  $y = -x - 3$

x	y
4	$-(4) - 3 = -7$
-6	$-(-6) - 3 = 6 - 3 = 3$
2	$-(2) - 3 = -5$
-4	$-(-4) - 3 = 4 - 3 = 1$

5.  $y = -2x + 3$

x	y
0.5	$-2(0.5) + 3 = -1 + 3 = 2$
4	$-2(4) + 3 = -8 + 3 = -5$
-1	$-2(-1) + 3 = 2 + 3 = 5$
-1.5	$-2(-1.5) + 3 = 3 + 3 = 6$

6.  $y = \frac{1}{2}x + 5$

x	y
2	$0.5(2) + 5 = 1 + 5 = 6$
-3	$0.5(-3) + 5 = -1.5 + 5 = 3.5$
-8	$0.5(-8) + 5 = -4 + 5 = 1$
-7	$0.5(-7) + 5 = -3.5 + 5 = 1.5$

7.  $y = x - 2$

x	y
2	$2 - 2 = 0$
5	$5 - 2 = 3$
-1	$-1 - 2 = -3$
-3	$-3 - 2 = -5$

8.  $y = -x - 6$

x	y
0	$-(0) - 6 = -6$
1	$-(-1) - 6 = -7$
6	$-(6) - 6 = -12$
-2	$-(-2) - 6 = 2 - 6 = -4$

9.  $y = 5$

x	y
2	5
1	5
0	5
-1	5

10.  $x = -3$

x	y
-3	1
-3	2
-3	3
-3	4

11.  $y = -x - 1$

x	y
5	$-(5) - 1 = -6$
3	$-(3) - 1 = -4$
-1	$-(-1) - 1 = 1 - 1 = 0$
-3	$-(-3) - 1 = 3 - 1 = 2$

12.  $y = -\frac{1}{2}x + 1$

x	y
2	$-0.5(2) + 1 =$
-4	
4	
-6	

# Tables of Values

## GRAPH #1:

Equations:

*slope*  
*y-int*

a)  $y = 2x + 4$

x	y
-1	$2(-1)+4 = -2+4 = 2$
0	$2(0)+4 = 0+4 = 4$
1	$2(1)+4 = 2+4 = 6$
2	$2(2)+4 = 4+4 = 8$

b)  $y = 2x + 2$

x	y
-1	$2(-1)+2 = -2+2 = 0$
0	$2(0)+2 = 0+2 = 2$
1	$2(1)+2 = 2+2 = 4$
2	$2(2)+2 = 4+2 = 6$

c)  $y = 2x$

x	y
-1	$2(-1) = -2$
0	$2(0) = 0$
1	$2(1) = 2$
2	$2(2) = 4$

d)  $y = 2x - 4$

x	y
-1	$2(-1)-4 = -2-4 = -6$
0	$2(0)-4 = 0-4 = -4$
1	$2(1)-4 = 2-4 = -2$
2	$2(2)-4 = 4-4 = 0$

## GRAPH #2:

Equations:

a)  $y = -2x + 4$

x	y
-1	$-2(-1)+4 = 2+4 = 6$
0	$-2(0)+4 = 0+4 = 4$
1	$-2(1)+4 = -2+4 = 2$
2	$-2(2)+4 = -4+4 = 0$

b)  $y = -2x + 1$

x	y
-1	$-2(-1)+1 = 2+1 = 3$
0	$-2(0)+1 = 0+1 = 1$
1	$-2(1)+1 = -2+1 = -1$
2	$-2(2)+1 = -4+1 = -3$

c)  $y = -2x - 1$

x	y
-1	$-2(-1)-1 = 2-1 = 1$
0	$-2(0)-1 = 0-1 = -1$
1	$-2(1)-1 = -2-1 = -3$
2	$-2(2)-1 = -4-1 = -5$

d)  $y = -2x - 5$

x	y
-1	$-2(-1)-5 = 2-5 = -3$
0	$-2(0)-5 = 0-5 = -5$
1	$-2(1)-5 = -2-5 = -7$
2	$-2(2)-5 = -4-5 = -9$

## GRAPH #3:

Equations:

a)  $y = 4x - 2$

x	y
-1	$4(-1)-2 = -4-2 = -6$
0	$4(0)-2 = 0-2 = -2$
1	$4(1)-2 = 4-2 = 2$
2	$4(2)-2 = 8-2 = 6$

b)  $y = 2x - 2$

x	y
-1	$2(-1)-2 = -2-2 = -4$
0	$2(0)-2 = 0-2 = -2$
1	$2(1)-2 = 2-2 = 0$
2	$2(2)-2 = 4-2 = 2$

c)  $y = x - 2$

x	y
-1	$(-1)-2 = -3$
0	$0-2 = -2$
1	$(1)-2 = -1$
2	$(2)-2 = 0$

d)  $y = \frac{1}{2}x - 2$

x	y
-1	$0.5(-1)-2 = -0.5-2 = -2.5$
0	$0.5(0)-2 = 0-2 = -2$
1	$0.5(1)-2 = 0.5-2 = -1.5$
2	$0.5(2)-2 = 1-2 = -1$

## GRAPH #4:

Equations:

a)  $y = -\frac{1}{2}x + 3$

x	y
-1	$0.5+3 = 3.5$
0	$-0.5(0)+3 = 3$
1	$-0.5(1)+3 = 2.5$
2	$-0.5(2)+3 = 2$

b)  $y = -x + 3$

x	y
-1	$-(-1)+3 = 2+3 = 5$
0	$-(0)+3 = 3$
1	$-(1)+3 = 2$
2	$-(2)+3 = 1$

c)  $y = -2x + 3$

x	y
-1	$-2(-1)+3 = 2+3 = 5$
0	$-2(0)+3 = 3$
1	$-2(1)+3 = 1$
2	$-2(2)+3 = -1$

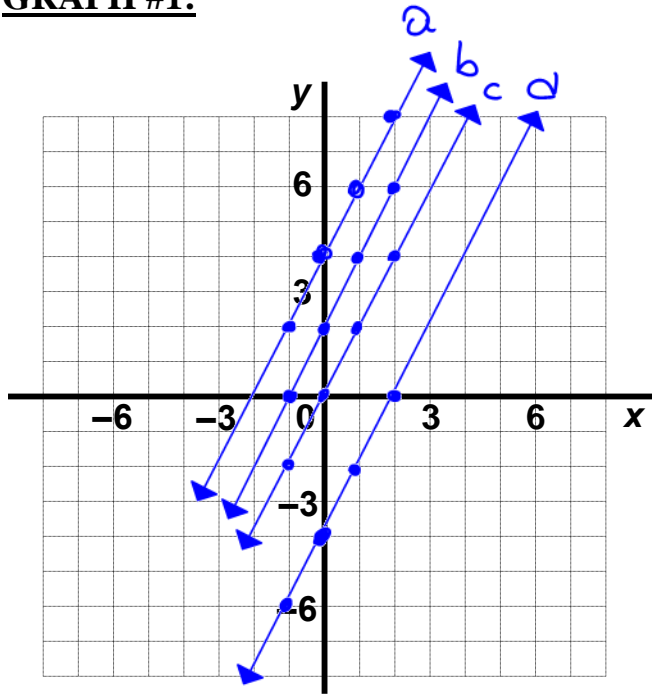
d)  $y = -4x + 3$

x	y
-1	$-4(-1)+3 = 4+3 = 7$
0	$-4(0)+3 = 3$
1	$-4(1)+3 = -1$
2	$-4(2)+3 = -5$

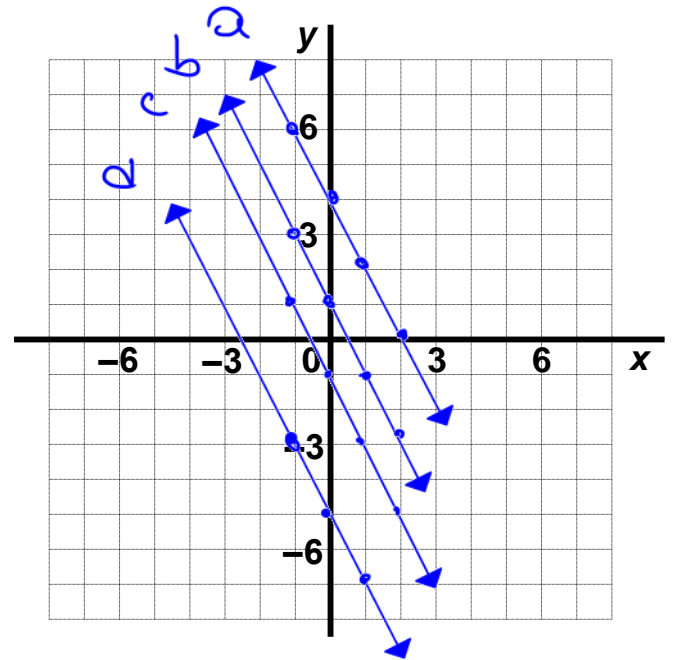
# Graphs

1. Complete the Tables of Values for each equation.
2. Plot all 4 points from the Table of Values on the Graphs sheet, draw a line through these 4 points, extending the line edge-to-edge on the graph.
3. Label the line you have just graphed with its letter (*a*, *b*, *c*, or *d*)

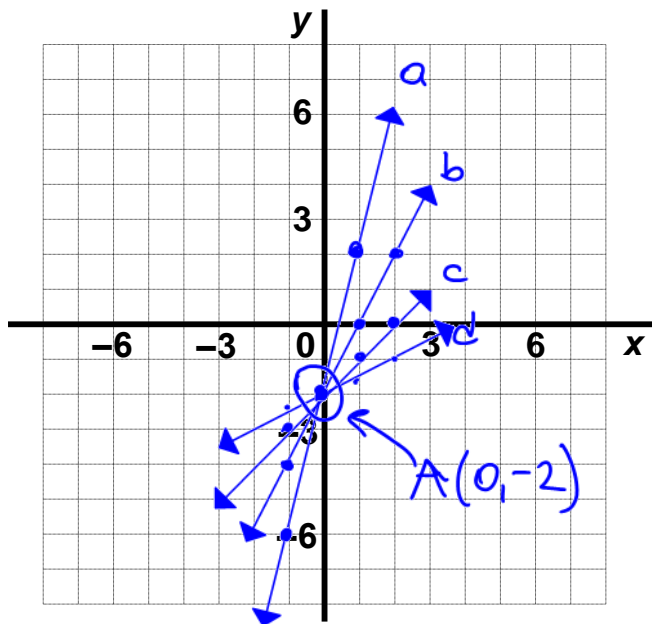
**GRAPH #1:**



**GRAPH #2:**



**GRAPH #3:**



**GRAPH #4:**

