$$y = 3x + 5$$

Н

$$y = -\frac{1}{3}x - 1$$

D

$$y = 2x$$

 $\mathsf{C}$ 

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

F

	+0
	9+
	8-
	7+
	6
	5+
	4
	3+
	2
	1
	<del>                                 </del>
	2 -11 - 1 2 4 4 5 6 7 8 9
-9 -8 -7 -6 -5 -4 -3	<b>.</b> <i>.</i>
	-2+
	3+ /
	4+/
	5+/
	-6+/
	<del>-7</del>
	<del>                                      </del>

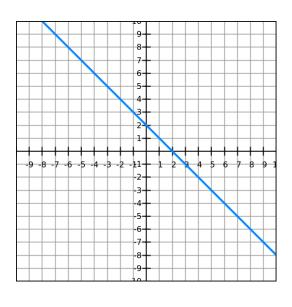
Α

y
9
7
5
3
1

G

X	у
-2	0
-1	-1
0	-2
1	-3
2	-4

0



I

$$y = \frac{3}{4}x - 1$$

K

$$y = \frac{3}{4}x + 9$$

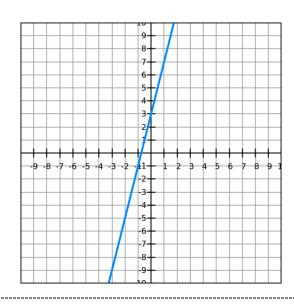
M

Х	у
-2	4
-1	7
0	10
1	13
2	16

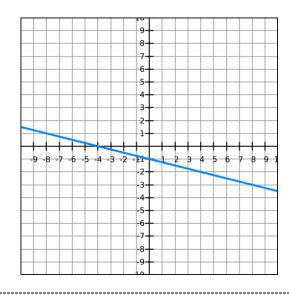
L

X	у
-2	2
-1	5
0	8
1	11
2	14

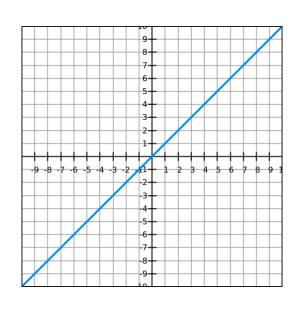
J



Н



N



E

X	y
-2	2
-1	1
0	0
1	-1
2	-2

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

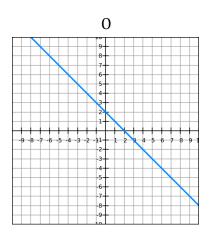
## Parallel and Perpendicular Matching Activity

**Directions**: Match each equation, graph, and table to its corresponding **parallel** or **perpendicular** line. Record the letters of your pairs in the table below.

These lines are <b>PARALLEL</b>		These l	lines are PERPENDICULAR ⊥	
1.		slope=	5.	
2.		slope=	6.	
3.		slope=	7.	
4.		slope=	8.	

**Directions**: Cards O and G are a match. Determine if they are **parallel** or **perpendicular**. Show your work.

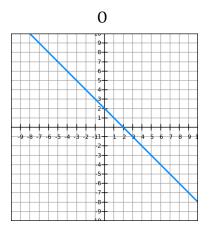
9.



G

X	у
-2	0
-1	-1
0	-2
1	-3
2	-4

**Directions**: Write a mathematical argument to <u>support</u> your answer for #9. Use complete sentences and correct math vocabulary.



G		
X	у	
-2	0	
-1	-1	
0	-2	
1	-3	
2	-4	
	_	

Checklist of questions you must address in your argument: ☐ Are lines 0 and G parallel or perpendicular? ☐ How do you know? How do you know your work is correct? What have you learned in math class to support your answer?

## **SOLUTIONS**

These lines are PARALLEL		EL II	These lines are PERPENDICULAR $\perp$
1.	D F	slope=2	5. <u>B</u> <u>H</u>
2.	O   G	slope=1	6. <u>A</u> <u>L</u> <u>C</u>
3.	_M   <u>L</u>	slope=3	7. <u>J H</u>
4.	K	slope= $-\frac{3}{4}$	8. <u>N</u> <u>E</u>