

Name: _____

Work on as many problems as you can together with your group members. Towards the end of lecture your group will be asked to present a problem correctly to receive classwork points.

1. Plot the following ordered pairs on the rectangular coordinate plane. Label your points.

(a) $(-7, 3)$

(d) $(-1, -3)$

(b) $(-2, -3)$

(e) $(-9, 2)$

(c) $(4, -5)$

(f) $(2, -4)$

2. For each of the following, complete the table of values and graph the equation:

x	y
-3	
-2	
-1	
0	
1	
2	
3	

(a) $y = x - 5$

(b) $y = 5|x|$

(c) $y = 5 - x^2$

(d) $y = 2$

3. Find the y -values in the table and then graph the equation $y = \frac{4}{x}$

x	y
-2	
-1	
$-1/2$	
$1/2$	
1	
2	

4. Answer the following questions using the table below:

x	y
-3	-1
-2	-2
-1	-3
0	-4
1	-5
2	-6
3	-7

(a) Determine which equation corresponds to the table.

i. $y = 1-4x$

ii. $y = x+1$

iii. $y = -4-x$

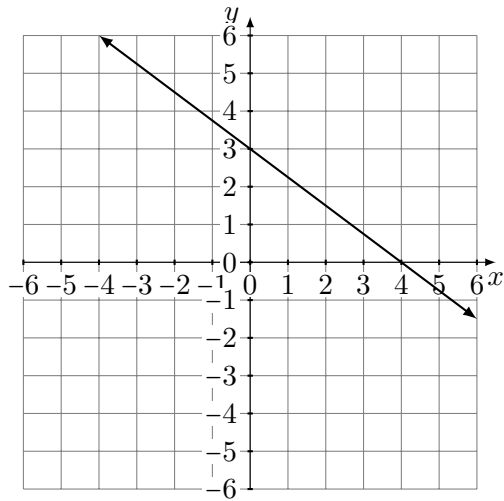
iv. $y = x-4$

(b) Does the graph of y pass through the origin?

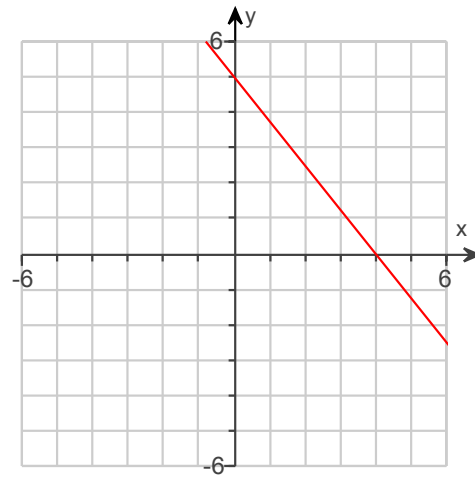
(c) At which point does the graph pass the y -axis?

5. Determine the x and y intercepts for the following:

(a)



(b)



(c) The equation corresponding to the table

x	y_1	y_2
-3	4	-1
-2	3	0
-1	2	-1
0	1	-2
1	0	-3
2	-1	-4
3	-2	-5

6. Write the following english sentences as equations in two variables. Then graph the equations:

(a) The y value is five more than four times the x -value.

(b) The y -value is one less than three times the x -value.