Math 110

Notes 3.3

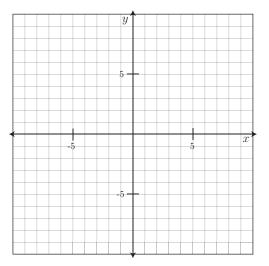
1. Complete the tables below.

(a)

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

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

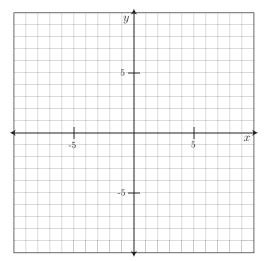
2. Sketch the graphs of 1(a) and (b) on the axes below.



3. Sketch the graphs below on the same axes.

- (a) y = x
- (b) y = 2x
- (c) y = 3x
- (d) y = 4x

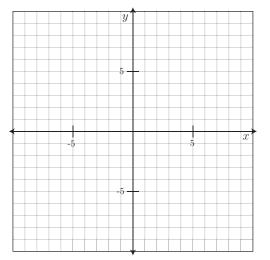
What do you observe about the relationship between the formulas and their graphs?



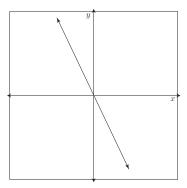
4. Sketch the graphs below on the same axes.

- (a) y = x(b) y = x + 2(c) y = x + 3
- (d) y = x + 4

What do you observe about the relationship between the formulas and their graphs?



5. Estimate the equation of the line sketched below.



6. Karen earns \$8 per hour working for the BK Lounge. What is her income if she works for...

hours	dollars
1	
2	
3	
4	
•	
t	

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7. Eva drives her car at 70 mph. How far will she have travelled if she drives for...

hours	distance
1	
2	
3	
÷	
t	

8. The tables from question (1) are shown below. Notice that in (a) the increase in x and the increase in y are both 1 (a number that doesn't obviously appear in the equation). In (b), however, y increases by 4 as x increases by 1. Notice where the 4 shows up in that equation.



Complete the two tables below and see what you can discover. (Note the input values in the first table and try to understand why those were chosen.

(d)

(с)
1		/

x	-12	-6	0	6	12
$y = \frac{5}{6}x$					

x	-8	-4	0	4	8
$y = \frac{3}{4}x$					