Goals:

I have mastered level 2 when I can:

Write an equation given the slope and y-intercept Write an equation from a table

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

- 1) Slope = $\frac{9}{4}$, y-intercept = -4 2) Slope = $-\frac{7}{4}$, y-intercept = 5
- 3) Slope = 2, y-intercept = 4 4) Slope = $-\frac{1}{2}$, y-intercept = -2

Write an equation in slope-intercept form for each table below. Show how you found the slope and y-intercept.

i.	x	у] ii.	x	у	iii. [x	у	iv.	x	у	v.	x	y y]
	0	0		0	6		0	-1.5		0	3		1	1	
	1	2.5		1	7		1	1.5		1	-1		2	5	
	2	5		2	8		2	4.5		2	-5		3	9	
	3	7.5		3	9		3	7.5		3	-9		4	13	
	4	10		4	10		4	10.5		4	-13		5	17	

Write a linear equation for each table relating *x* and *y*.

a.	x	0	3	6	10
	У	2	8	14	22

b.	x	0	3	6	10
	У	20	8	-4	-20

 x
 2
 4
 6
 8

 y
 5
 8
 11
 14

c.

d. x 0 3 6 9 **y** 20 11 2 -7

Determine if the table represents a linear relationship, if yes, write an equation in slope-intercept form.

a.	x	2	4	6	8	10	12	14
	У	0	1	2	3	4	5	6

x	1	4	6	7	10	12	16
у	2	-1	-3	-4	-7	-9	-13

b.	x	1	2	3	4	5	6	7
	у	0	3	8	15	24	35	48