(Level C)Independent Practice Day 7: Writing an equation of a line using a table.

$$\text{Slope} = m = \frac{rise}{run} = \frac{y_2 - y_1}{x_2 - x_1}$$

1. Determine the slope of a line using the table:

x	0	1	2	3	4
y	2	5	8	11	14

$m = $ _____

Determine the equation for the tables shown:

1.

x	y
-2	3
-1	5
0	7
1	9
2	11

m =

b =

y = ___x + ____

2.

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

m =

b =

y = ___x + ____

3.

x	y
1	-17
2	-13
3	-9
4	-5
5	-1

m =

b =

y = ___x + ____

4.

x	y
-6	-4
-5	-9
-4	-14
-3	-19
-2	-24

m =

b =

y = ___x + ____

5.

x	y
-2	10
0	4
3	-5
6	-14
8	-20

Write a linear equation for the tables shown. **y = m x + b**

1. Find the m   **slope**
2. Find the b   **y- intercept**
3. Plug the m and b into your slope intercept form.... y = m x + b

Plug in the m and b   y = _____ x + _____

6.

x	y
-2	3
-1	6
0	9
1	12
2	15

Write a linear equation for the tables shown. $y = mx + b$

1. Find the m **slope**
2. Find the b **y- intercept**
3. Plug the m and b into your slope intercept form.... $y = mx + b$
      Plug in the m and b $y =$ _____ $x +$ _____

7.

x	y
-14	3
-12	6
-10	9
-8	12
-6	15

Write a linear equation for the tables shown. **$y = mx + b$**

1. Find the m **slope**
2. Find the b **y- intercept**
3. Plug the m and b into your slope intercept form.... $y = mx + b$
      Plug in the m and b $y =$ _____ $x +$ _____

8.

x	y
-6	12
-5	14
-4	16
-3	18
-2	20

Write a linear equation for the tables shown. **$y = mx + b$**

1. Find the m **slope**
2. Find the b **y- intercept**
3. Plug the m and b into your slope intercept form.... $y = mx + b$
      Plug in the m and b $y =$ _____ $x +$ _____