## Pre-Algebra U7L4 (8-4) Practice

Name:	E	
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- 1. Write a function to represent the following situations.
  - a. You give a salesperson \$20 for a purchase and receive change. Write a function where p represents the amount of the purchase and c(p)represents the amount of change you receive.

D- Purchase

C(p)=20-D

clo) - change

Use your function to find how much change you would receive from a C(4.5) = 20-4.5 \$4.50 purchase.

= 1815.50

b. Write a function to represent the total number of miles you walk, represented by m(r), if you walk 7 miles before lunch, and you walk for 2 hours at r mi/hr after lunch.

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m(r)= 7+2r

Use your function to find the total miles you would walk if you walk at

3.8 mi/hr after lunch

m13.81=213.87+7

2. Use the following tables to write a function.

					a					-2
	X	f(x)	\ \ \	M=	a=1	\	х		W	トニニー
, a	-9	-18	\Q	1-			-4	4		
+1	0	-9	La	D-	= 4	49	-2	2	-0	p=0

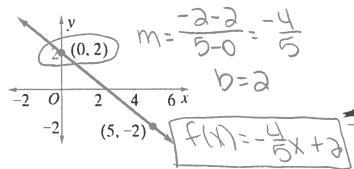
	'			<b>{</b>	
ı		-4	4		
	49	-2	2	-0	D=0
	49	0	0	7	
	V			-3	

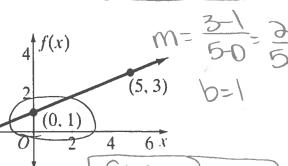
2	2	-0	0=0
0	0	2	
2	-2	-9	
	10	1/15	

			111-11-
.\	x	f(x)	
	-4	4	D=0
44	0	6	73
49	2	7	+1
49	4	8	+1

2) + X == (x) =] [.	

3. Use the following graphs to write a function.





4. Write a function that has the given slope m and y-intercept b.

a. 
$$m = 0$$
 and  $b = 2$ .

b. 
$$m = -\frac{1}{3}$$
 and  $b = -4$ 

$$f(x) = 0 \times + 3$$

$$f(x) = -\frac{1}{3}$$

$$f(x) = -\frac{1}{3} \times -4$$

$$f(x) = -\frac{1}{3} \times -4$$

5. Write a function with the given slope *m* that goes through the given point. (Use slope-intercept form to find the y-intercept.)

a. 
$$m = 3$$
 and goes through the point (-2, -2)

b. 
$$m = -\frac{1}{4}$$
 and goes through the point (4, 0)

6. Write a function that goes through the two points.

$$0 m = \frac{5-1}{2-1} = \frac{4}{1} = 4$$

$$0 \quad M = \frac{5-8}{25-10} = \frac{-3}{15} = -\frac{1}{5}$$

$$8 = -\frac{1}{5}(10) + 6$$

$$-a = 3(-a) + b$$

$$-a = -b$$

$$0 = -\frac{1}{4}(4) + b$$

$$0 = -1 + b$$

$$1 = b$$