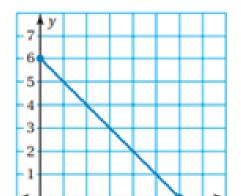
Grab a Warm Up on the front table and get to work. Have your homework out and ready check. QUIZ TOMORROW!

Classwork - Quiz Review

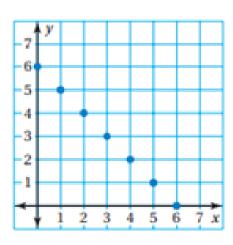
Is the domain discrete or continuous? Circle your answer.

A)



Discrete of Continuous

B)



Discrete or Continuous

Determine the independent and dependent value of each situation and write a function that represents the situation. Then, determine if each situation is a discrete or continuous graph.

2) Your class is going on a field trip to the history museum and tickets cost \$5.85 per ticket. Write a function where the total cost c is a function of the number of students going on the field trip s.

IV: # of students DV: total cost

Circle Answer Discrete or Continuous

B) How much would it cost for 42 students to go on the field trip?

C=585(42) C=\$245.70

3) A tree grows at the rate of 3 feet every year. Write a function where the tree's height h is a function of the number of years n.

Circle Answer: Discrete or Continuous

B) How many years will it take for the tree to reach a height of 42 feet tall?

Graph each function.

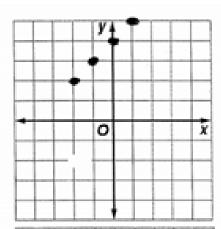
Complete the function table. Then graph the function.

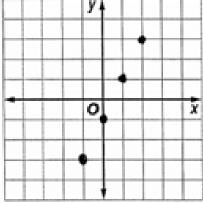
1.
$$y = x + 4$$

x	x+4	y	(x, y)
-2	-2+4	2	(2,2)
-1	-1+4	3	(1,3)
0	0+4	4	(0,4)
1	1+4	5	(1,5)

2.
$$y = 2x - 1$$

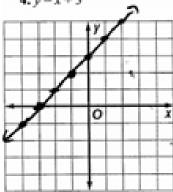
x	2x-1	y	(x, y)
⁺ -1	26-17-1	-3	(-1,-3)
0	2(2)-1	-1	(0,-1)
1	2613-1	ı	(11)
2	2(2)-1	3	(2,3)



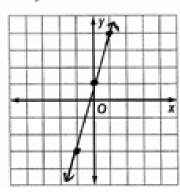


Graph each function. Make a table if it belps.

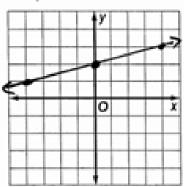
4.
$$y = x + 3$$



5.
$$y = 3x + 1$$



6.
$$y = \frac{1}{4}x + 2$$



7. CARPENTRY Mrs. Valdez can assemble a chair in 1 day and a table in 4 days. Graph the function $y = 5 - \frac{1}{4}x$ to determine how many of each type of furniture Mrs. Valdez can assemble in 20 days. Is the function continuous or discrete? Explain.

Circle Answer: Discrete OR Continuous

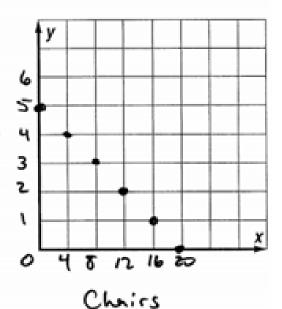
Explanation > can't have part of a price of furnishure

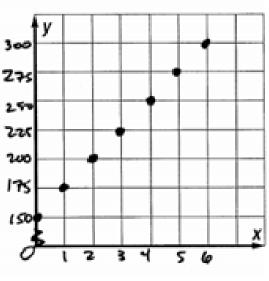
		77501 ~			-
x	0	4	8-	12	
У	5	4	3	2	

8. FITNESS A fitness center has set a goal to have 500 members. The fitness center already has 150 members and adds an average of 25 members per month. The function f(x) = 150+ 25x represents the membership after x months. Graph the function to determine the number of months it will take for the fitness center to reach its membership goal. Is the function continuous or discrete? Explain.

Circle Answer: Discrete OR Continuous

x	0	ı	2	3
У	150	175	200	225







9. FUEL CONSUMPTION The function d = 18g describes the distance d that Rick can drive his truck on g gallons of gasoline. Graph this function. Why is it sufficient to graph this function in the upper right quadrant only? How far can

Circle A	nswer: Disc ion → 🏎	ons of gasolin	ntinuous	portin	tance (mi)	100 80 60	d	/	7		
×	2	4	6	8	र्प हैं	40	+ /			+	+
У	36	72	108	144	3 54	20				\mp	ļ
Distance	Rick can dri	ve on 2.5 gall	ons= 4	5m;	5 90	0	\prod_{j}	4	6	8	!
		18(2.5)			•		- (Gasoli	-	-	

d=45

1) The table shows the total cost for a band saw and extra blades.

A) Write an equation to find the total cost c of a band saw with any number of extra blades e.

	Number of	Total			
	Extra Blades	Cost (\$)			
١	0	150	L	×	l
	1	154	Ļ	V	١
	2	158			•
	3	102			

B) Use the equation to find the cost of a band saw with 10 extra blades."

C) Use the equation to find the number of extra blades if the total cost is \$218.

2) An aquarium costs \$85 plus \$2 per fish.

- A) Write an equation to find the cost c of an aquarium plus any number of fish f.
- B) Make a table to find the cost of an aquarium plus 3, 4, 5, or 6 fish.

Number of Fish	Total Cost (\$)

C) Graph the ordered pairs on the graph below. Make sure to show whether the graph is continuous or discrete. State the domain and range.

1					

Domain: {_____}

Range: {______}

 D) Explain why the graph is either continuous on discrete. 3) Use the four given values for x to complete the following function tables Then state the domain and

range of the function. Graph the function.

A)
$$f(x) = -3x + 6$$

x	-3x + 6	f(x)
-1		
0		
1		
2		

Domain: {______

Range: {_____}

Numerical

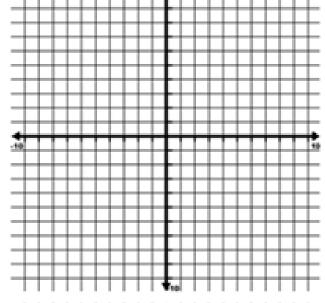
Ordon

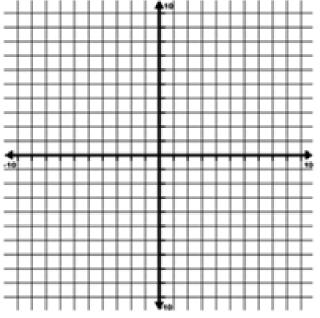
B)
$$f(x) = \frac{2}{3}x - 5$$

x	$\frac{2}{3}x - 5$	f(x)
-6		
-3		
0		
9		

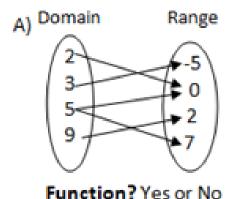
Domain: {

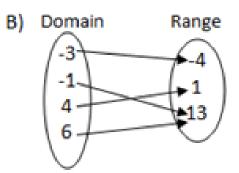
Range: {_____} }





4) Determine if the if the following relations in the diagrams are functions. If it is not a function, circle the domain value that proves it isn't a function.





Function? Yes or No.

5) Determine if the following relations are functions. Draw a diagram with arrows. If it is not a function, circle the domain value that proves it isn't a function.

Domain

Range

Domain

Range

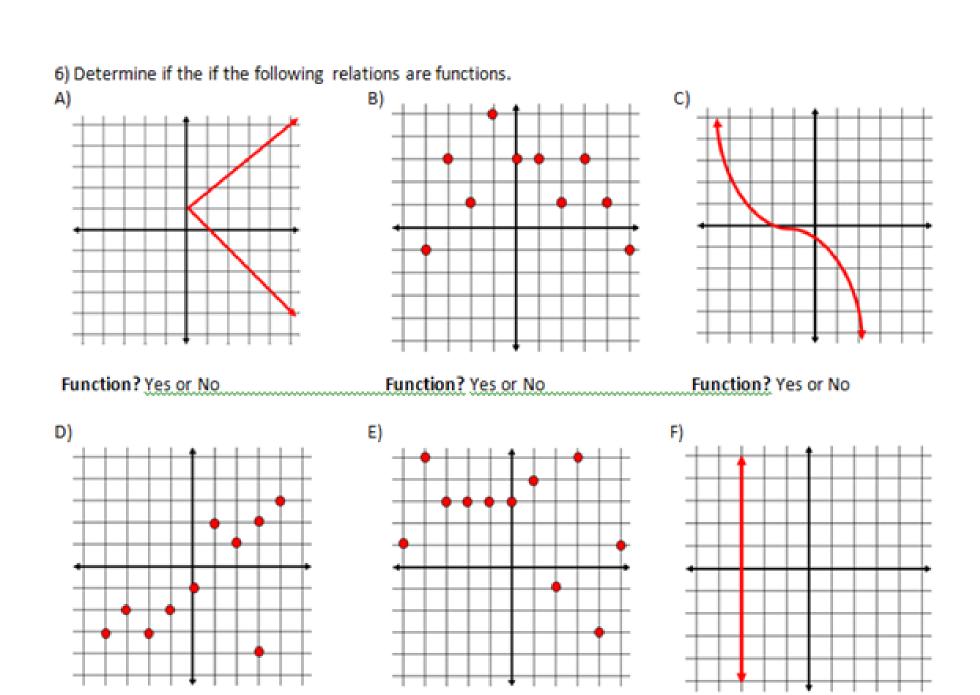
Domain

Range

Function? Yes or No.

Function? Yes or No.

Function? Yes or No.



Function? Yes or No

Function? Yes or No

Function? Yes or No

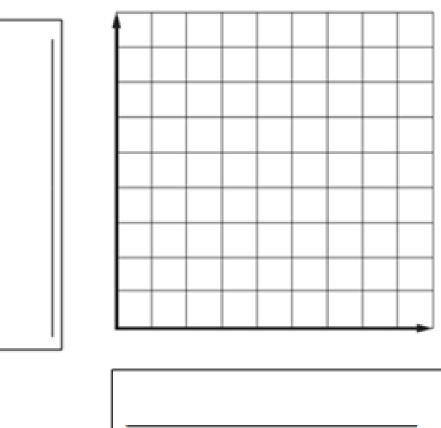
7	A grocen	y store is selling	ground beef for	\$1.75	per pound.
	,	,	0	~	P P

A) Write a function where the total cost f(p) is a function of the pounds of ground beef bought p.

B) Make a table of ordered pairs in which p represents the number of pounds and f(p) represents the total cost for 1, 2, 3, or 4 pounds.

p	f(p)

C) Graph the ordered pairs. LABEL the graph.



D) Identify the independent and dependent variable of the relationship.					
IV:	DV:				
E) Us the function discrete or contin	uous? Explain. (Make sure your	graph matches	this answer	
Explanation:					
F) State the domain and range of t	he relationship.				
Domain: {}		Range: {		}	

8) A magazine has a onetime subscription fee of \$: A) Write a function where the cost c is a function of	
Function →	
B) Make a table of ordered pairs in which m represents the number of magazines and c represents the cost for 4, 8,	C) Graph the ordered pairs. LABEL the graph.
12, or 16 magazines.	
m c	
D) Identify the independent and dependent variable of the relationship.	
IV:	
DV:	

E) <u>Is</u> the function	discrete or continuous?	Explain. (Make sure your	graph matches this answer)
Explanation:			
F) State the doma	in and range of the rel	ationship.	
Domain: {	}}	Range: {	}