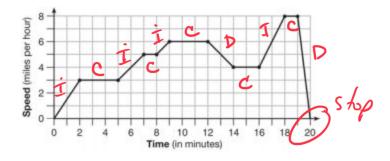


Algebra 1 Chapter 5 Pre-Test

 (2.5 pts each, 10 pts total) (5-1) The graph below represents Arlene's speed during her 20-minute jog around her neighborhood. Use the graph to answer the following questions.



a) During which intervals was Arlene's speed increasing?

0-2,5-7 8-9 16-18

b) During which intervals was Arlene's speed decreasing?

12-14 19-20

- c) During which intervals was Arlene's speed constant? 2-5, 7-8, 9-12, 14-16, 18-9
- d) What time(s) did Arlene stop?

20

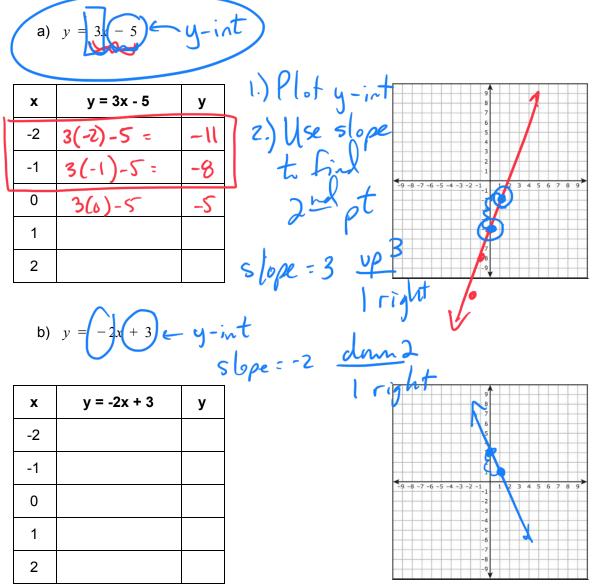
- 2.) (5 pts total) (5-2) Find the domain and range of each relation.
 - a) {(-2,7), (-1,4), (0,9), (3,2)}

Range: Uy Domain: (X) 8-2,-1,0,33 27,4,9,23

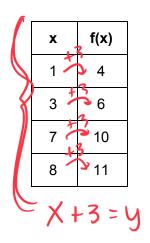
3.) (5 pts each, 10 pts total) (5-2) Determine whether each relation is a function.

a)	{(-8,4), (-4,4), (-1,2)	(7,2)}
	function	

4.) (10 pts each 20 pts total) (5-3) Use a table to graph each of the following functions.



5.) (5 pts each, 15 pts total) (5-4) Analyze table and write the function rule.

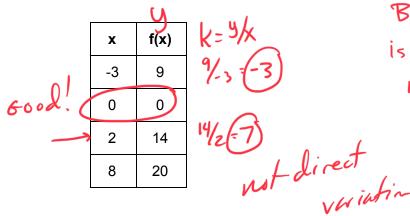


X + 3 = yX + 3 = f(x)

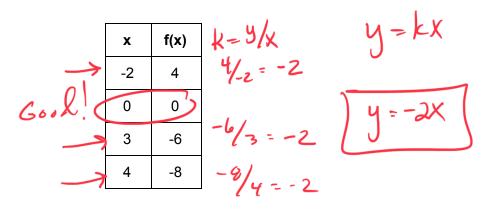
x	f(x)
0	0
2	7
4	14
10	35

x	f(x)
-4	10
-2	12
1	15
3	17

6.) (5 pts each, 10 pts total) (5-5) For the data in the table, tell whether y varies directly with x. If it does, write an equation for direct variation.



By definition \$(0,0 is direct



direct variation

7.) (2.5 pts each, 5 pts total) (5-5) Is each of the following equations an example of direct variation? If so, find the constant of variation.

(a)
$$-3x + 4y = 0$$

 $+3x + 3$
 $y = 3x$
 $y = -3x$
 $y = -5x$
 y

- 8.) (5 pts each, 10 pts total) (5-5) Each of the following ordered pairs are examples of direct variation. Find each missing value.
 - a) (3, 8) and (x, 20)

 \checkmark

b) (4) y) and (12, -9)

$$\begin{array}{c}
 K = \frac{y}{x} = -\frac{-9}{12} = -\frac{3}{4} \\
 Y = -\frac{3$$

- 9.) (5 pts each, 15 pts total) (5-6) Find the fifth tenth, and hundredth terms of each sequence. start + difference (n-1)
 - J a) 6, 14, 22, 30,... 6 + 8(n-1)VUU +8+8+8 n=5 b + 8(5-1)6+8(4) = 6+32=(38) b) 12, 5, -2, -9,... le + 8(10-1) N=10 6+8(9) = 6+72= (73)

c) -18, -23, -28, -33

$$N = 0b$$