

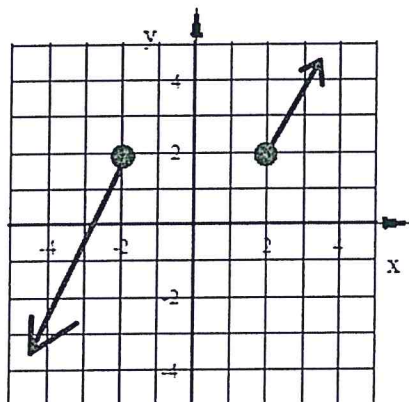
Algebra 1 Bellwork Tuesday, December 15, 2015

1. Use this function: $k(w) = 6 - 10w$

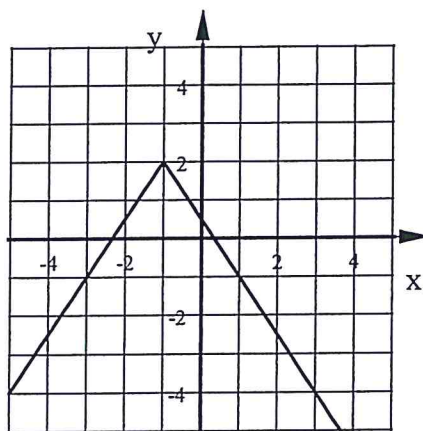
a) Find w if $k(w) = 51$

b) Find the Range for this Domain: $\{-2, 0, 1, 2\}$

2. State the Domain and Range of this graph:



3. State the equation of the graph below.



4. Write a function rule for each table of values.

a)

X	Y
-5	21.5
-2	8.6
4	-17.2
6	-25.8
9	-38.7

b)

X	Y
-16	-75
-12	-58
0	-7
4	10
20	78

5. Does each table represent Direct Variation?

If yes, state the variation constant and write a Direct Variation Equation.

a)

X	Y
-9	-28.35
-6	-18.9
-4	-12.6
5	15.75
14	44.1

Direct Variation?

If Yes, $k =$

If yes, EQ:

b)

X	Y
13	31
15	28
17	25
19	22
21	19

Direct Variation?

If Yes, $k =$

If yes, EQ:

1. Use this function: $k(w) = 6 - 10w$

a) Find w if $k(w) = 51$

$$\begin{aligned} 51 &= 6 - 10w \\ -6 &-6 \\ 45 &= -10w \\ -10 &-10 \\ w &= -4.5 \end{aligned}$$

$w = -4.5$

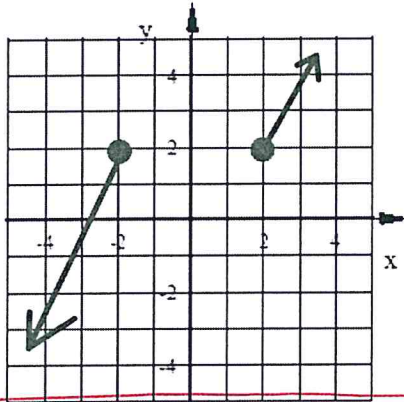
b) Find the Range for this Domain: $\{-2, 0, 1, 2\}$

$$\begin{aligned} k(-2) &= 6 - 10(-2) = 6 + 20 = 26 \\ k(0) &= 6 - 10(0) = 6 - 0 = 6 \\ k(1) &= 6 - 10(1) = 6 - 10 = -4 \\ k(2) &= 6 - 10(2) = 6 - 20 = -14 \end{aligned}$$

Range:

$\{-14, -4, 6, 26\}$

2. State the Domain and Range of this graph:



Domain

$x \leq -2$ or $x \geq 2$

Range

ALL REAL #s

4. Write a function rule for each table of values.

a)

X	Y
-5	21.5
-2	8.6
4	-17.2
6	-25.8
9	-38.7

$y = -4.3x$

b)

X	Y
-16	-75
-12	-58
0	-7
4	10
20	78

Before -7

-68

-51

0

17

85

$4.25x$

$y = 4.25x - 7$

5. Does each table represent Direct Variation?

If yes, state the variation constant and write a Direct Variation Equation.

a)

X	Y	$\frac{Y}{X}$
-9	-28.35	3.15
-6	-18.9	3.15
-4	-12.6	3.15
5	15.75	3.15
14	44.1	3.15

Direct Variation? **Yes**

If Yes, $k = 3.15$

If yes, EQ:

$y = 3.15x$

or $y = 3.15x$

b)

X	Y	$\frac{Y}{X}$
13	31	
15	28	
17	25	
19	22	
21	19	

these are all > 1

this is < 1

Direct Variation?

If Yes, $k =$

No

If yes, EQ: