

Lesson 4-3B: Functions Rules
Algebra Bellwork - December 5, 2011

Describe the "function rule" that each table models (shows).
Describe la "regla de la función" que muestra cada cuadro.

x	y
1	4
2	8
3	12
4	16

multiply by 4
 $y = 4x$

x	y
-2	-1
0	0
2	1
3	1.5

divide by 2
multiply by $\frac{1}{2}$
 $y = \frac{x}{2}$ $y = \frac{1}{2}x$

x	y
-1	2
2	-4
3	-6
5	-10

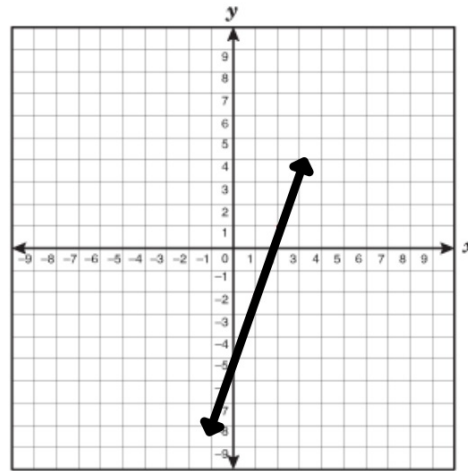
multiply by -2
 $y = -2x$

Objective: Today we will model functions using rules, table, and graphs.

Find the range for the function:

$$f(x) = 3x - 5$$

<u>Domain</u> Independent		<u>Range</u> Dependent
x	$3x - 5$	y
2	$3(2) - 5$	1
1	$3(1) - 5$	-2
0	$3(0) - 5$	-5
-1	$3(-1) - 5$	-8



Independent variable



X

Function

f(x)

Dependent variable



9. $f(x) = -3x$

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

