Your Name

Mrs. T

14720

Notes

LESSON 3-2 FUNCTION NOT&TION

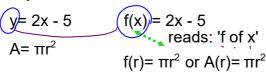
Objective: To be able to write an equation in function notation and understand how to substitute numbers and expressions in for the domain to find the range value.

Life Lesson/Skill: When we start graphing functions we need to understand how any number can be a domain possibility and expressions are just complicated ways to write numbers. A point is described by two things, its domain and range, like "taking the bus" could be described by accessibility and speed.

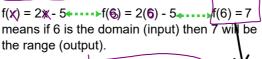
Function Notation

uses <u>f(x)</u> where <u>f</u> is the <u>name</u> of the function, and the <u>x</u> is the variable that we are substituting in for that will change

Equation Function Notation



Since a function uses its unique rule to pair a range value (y) with a domain value (x), if they replace x with a number, then they are asking you to plug that number in to the function for that variable.



In other words: when x is 6, y is 7.

$$f(\underline{x}) = -3\underline{x} - 4$$
 what is $f(-2)$? $y = 7$
 $f(-2) = -3(-2) - 4$ (x, y)

Finding

Find the value for the range using function rule and the domain given.

f(?) How? Plug in the inside value for that variable in the rule and simplify the expression

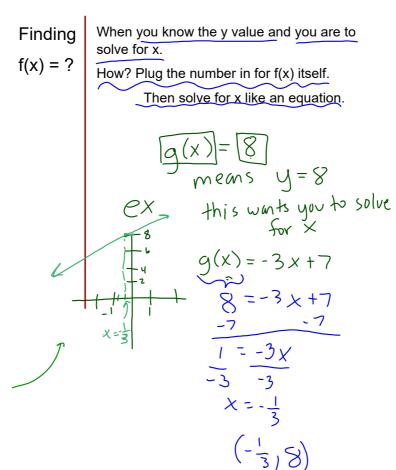
the function rule, f(x) = 2x - 5

the domain given, and x=? f(?)

the operation on the function.

Use brackets to separate the original equation from the other terms being listed.

$$f(x) = 2x - 5$$



Interpreting **Function** Notation

ex. Let f(t) be the outside temperature (°F) t hours after 6 A.M.

What do each of the following mean?

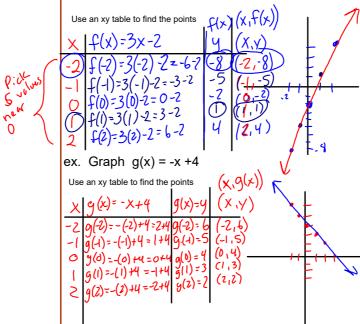
Tables and Graphs

Function Use the same function rule for each value of x listed in the x column to find f(x).

Then write the pair together: (x, f(x)) or (x,y)

Plot and connect points to graph the function

ex. Graph
$$f(x) = 3x - 2$$



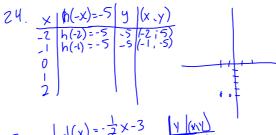
Summary

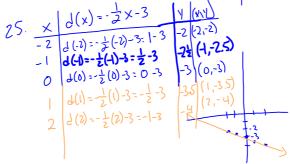
Objective: To be able to determine if a relation is a function or not from points, tables, and graphs. To be able to write an equation in function notation and understand how to substitute numbers and expressions in for the domain to find the range value.

Virtue/Skill: When we start graphing functions we need to understand how any number can be a domain possibility and expressions are just complicated ways to write numbers. A point is described by two things, its domain and range, like "taking the bus" could be described by accessibility and speed.

Assignment: pg. 125 #1,2,3-19 odd

Assignment: pg. 125 #23-28 all, and 34





26)	X	Y
	- 5	-1
	-2	13/5
	0	2
	Ī	23/5
	2	3 1/5
	5	5

