5.5 - Graphs of Relations and Functions
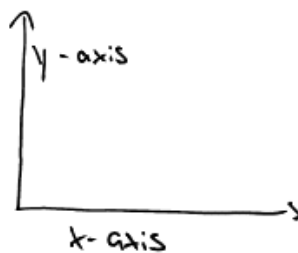
Monday, November 27, 2017   9:33 AM

How to tell if a graph is a function?

↳ Vertical line test:

If you can draw a vertical line that i
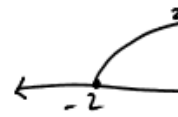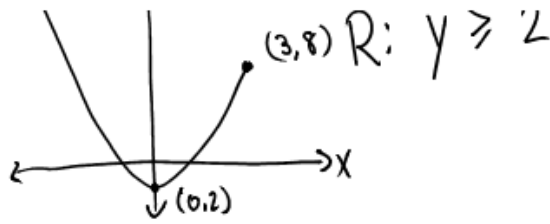Graph more than once, it is <u>not</u> a

ie.

function   not a function   function

On a graph:

y-axis

x-axis

A function is when
associated with only o

Ex: Function or not?

$(3,8)$ R: $y \geqslant 2$

$(3,8)$ $R: y \geqslant 2$

$(0,2)$

-2

$0: -2$

$R: 0 \leq$

Ex:

number of boats

28
24
20
16
12
8
4
0

9am   12pm   3pm   6pm

Time
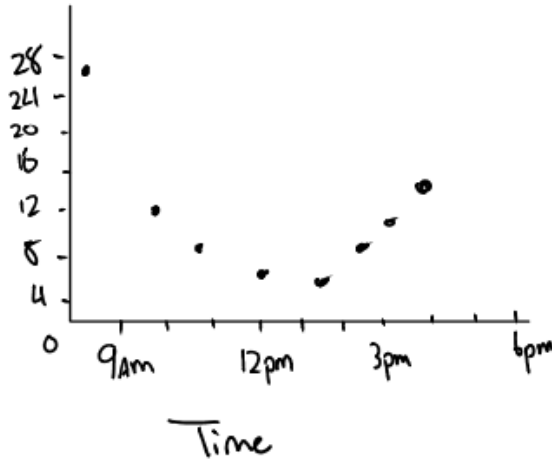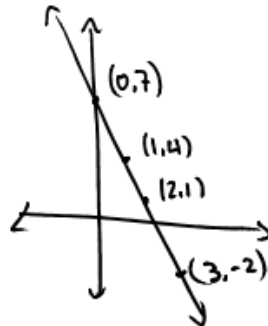
(i) what is the independant varia

(ii) What is the dep variable?

(iii) why are points connected?

(iv) D & R?

Ex. $f(x) = -3x + 7$

$(0,7)$
$(1,4)$
$(2,1)$
$(3,-2)$

What's the range when the domain is 2?

hat's the domain when the range is 4?

$$(x, 4)$$
$$\Rightarrow 4 = -3x + 7$$
$$-3 = -3x$$
$$1 = x$$

HW: Pg. 294 # 4, 5, 7, 8, 9, 16, 17, 19