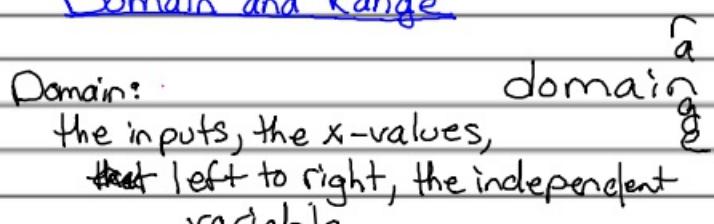
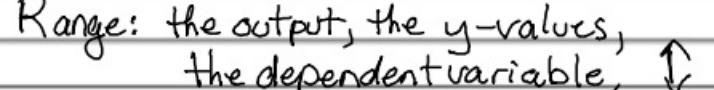
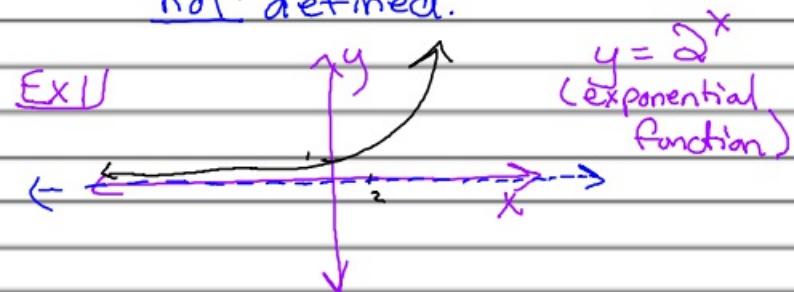
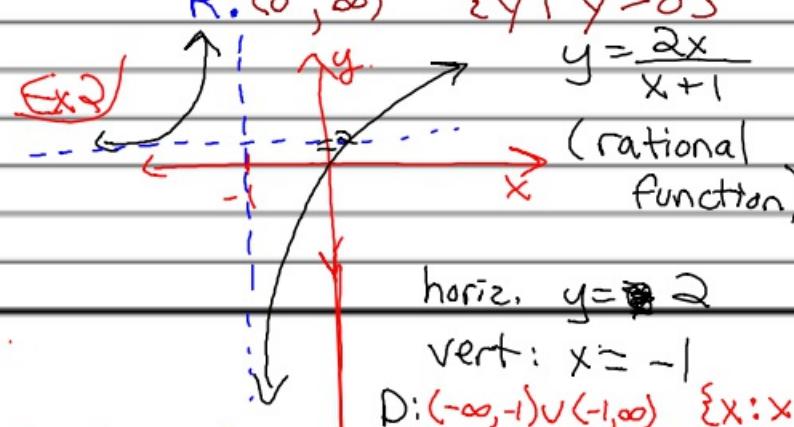


Cornell Notes 	Topic/Objective: Chapter 1 1.2 Domain and Range (on a Cartesian Plane)	Name:
		Class/Period: 4 Date: 10/11/16
Essential Question:	What are the important things we need to recall about functions?	
Questions:	Notes: <u>Domain and Range</u>	
	<p>Domain: the inputs, the x-values, </p> <p>Range: the output, the y-values, the dependent variable, </p>	
	<p><u>Asymptotes</u> occurs where a function is not defined.</p> <p><u>Ex 1</u> </p> <p>horizontal asymptote at $y=0$ $D: (-\infty, \infty) \{x x \in \mathbb{R}\}$ $R: (0, \infty) \{y y > 0\}$</p>	
<p>Hw p. 12 #2</p> <p>3 b, d, f, h, i, j</p> <p>don't graph 1st Try to find D, R from function</p>	<p><u>Ex 2</u> </p> <p>horiz. $y = 2$ vert: $x = -1$ $D: (-\infty, -1) \cup (-1, \infty) \{x x \neq -1\}$ $R: \{y y \neq 2\}$</p>	

$$(-\infty, 2) \cup (2, \infty)$$

Questions:

Notes: Notation (for Domain / Range)

Two choices

Interval
Notation

Indicates points
asymptotes

(,) means endpoints
not defined
[,] means endpoints
are defined

the set
of

Set Builder
Notation

$\{ x : x \in \mathbb{R} \}$

↑
all #s

such
that

element of
 $x \neq 3$
changes based
on function,
gives the
interval

Remember: asymptotes
occur wherever a function
is not defined

- ① can't have 0 in denominator
- ② can't take square root of neg.
- ③ no matter what number I
raise a base to, I will
never get a negative output