April 12th

Due Today: 11.1

Due Next: 11.2

Unit 11: Function Operations

Lesson 11.2: Domain and Range

Review your notes from yesterday's class!

Interval Notation:

(3, 10] **[0, 5]** **[0, ∞)**

4,5,6,7,8,9,10 0,1,2,3,4,5 0, 1,2,3.....

Soft Brackets = exclusive

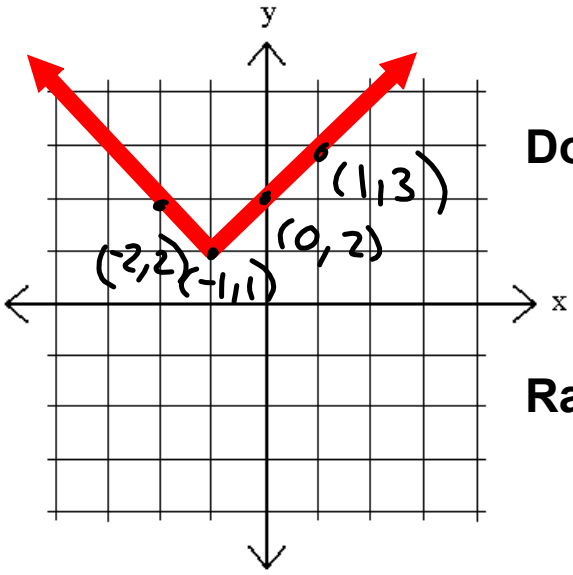
Hard Brackets= inclusive

*Infinity always gets SOFT BRACKETS

Domain & Range

Domain is all of the possible x-values the function can have [inputs]

Range is all of the possible y-values the function can have [outputs]



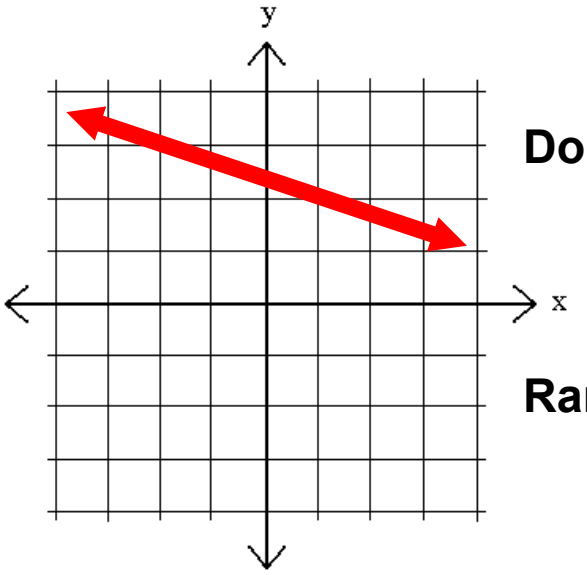
Domain (all possible X values):

$(-\infty, \infty)$

all real #s, $\mathbb{R}$

Range (all possible Y values:)

$[1, \infty)$

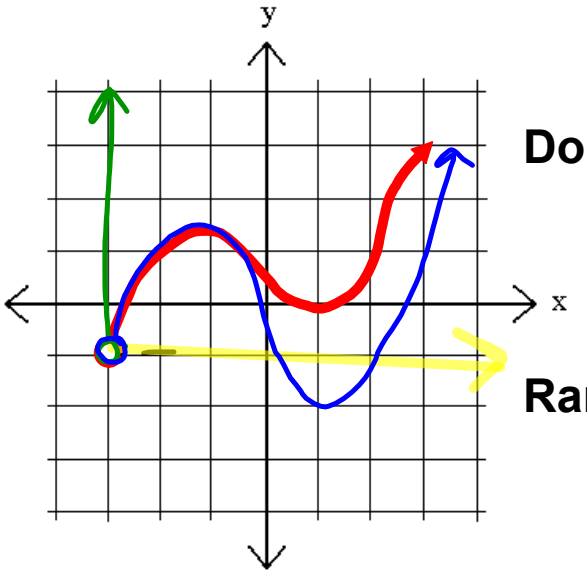


Domain (all possible X values):

$\mathbb{R}$

Range (all possible Y values:)

$\mathbb{R}$



Domain (all possible X values):

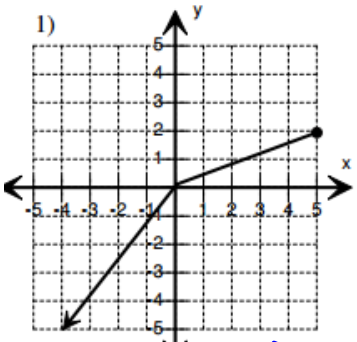
$(-3, \infty)$

Range (all possible Y values:)

$(-1, \infty)$

$[-2, \infty)$

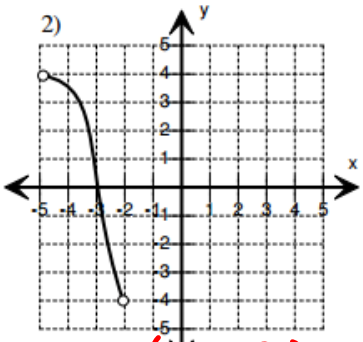
1)



Domain : $(-\infty, 5]$

Range : $(-\infty, 2]$

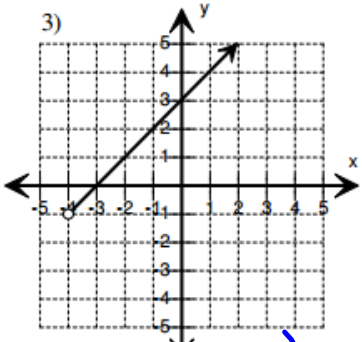
2)



Domain : $(-5, -2)$

Range : $(-4, 4)$

3)



Domain : $(-4, \infty)$

Range : $(-1, \infty)$

4. D: $(-\infty, 3]$

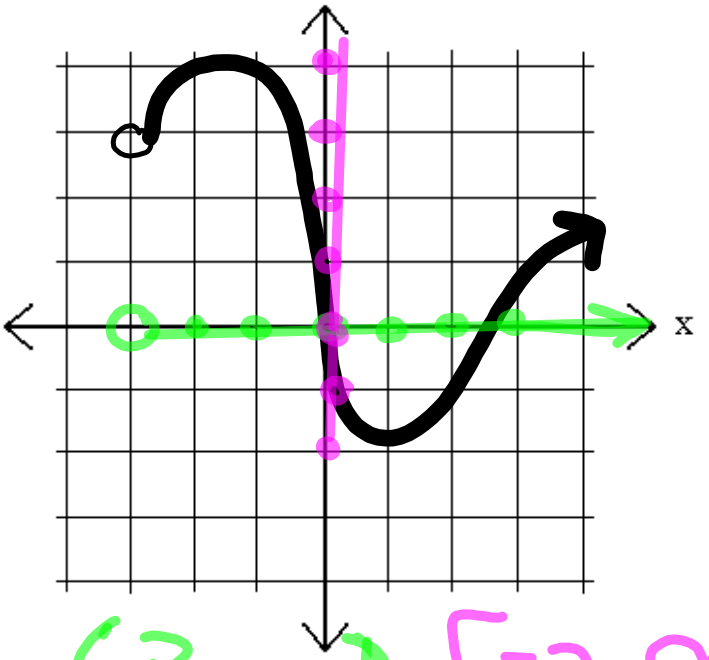
R: $[-2, \infty)$

5. D: $(-4, 3]$

R: $(-5, 2]$

6. D: $[-4, \infty)$

R: $[0, \infty)$



$(-3, \infty)$ $[-2, \infty)$

Unit 11: Function Operations

Lesson #	Name	Recap	HW
11.1	Families of Functions		HW 11.1
11.2	Domain and Range of Functions		HW 11.2