Vocab Booklet

Domain:

- Set of all x-values for which a function is defined.
- All allowed inputs to the function.
- Values of x where the graph exists as you move left and right across the graph.

Range:

- Set of all y-values for which a function is defined.
- All the outputs of a function.
- Values of y where the graph exists as you move up and down the graph.

Vocab Booklet

Intervals of increasing and decreasing.

Interval:

- values of x
- Usually given as an inequality. ex: x≥3, -2<x<0

Increasing interval: When the value of x increases the value of y increases

(as you move to the right the graph goes up)

Decreasing interval: When the value of x increases the value of y decreases (as you move to the right the graph goes down)

Linear Family of Functions:

Example Equation: y = -2x + 5Parent Function: v = x

Χ	Υ
-2	9
	_

Domain:

Range:

$$y = -2x + 5$$

Symbol for ALL REAL #'s

$$y = X$$

Linear Family of Functions:

Example Equation: y = -2x + 5Parent Function: y = x

X	Υ
-2	9
-1	7
0	5
1	3
2	1

Intervals of increasing and decreasing.

Increasing:

$$y = -2x + 5$$
 none

Interval notation for ALL REAL #'s

$$y = X$$

 $y = X - \infty \angle X < \infty$ Interval notation for ALL REAL #'s

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