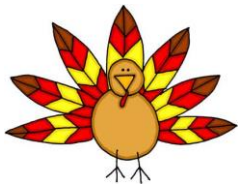
Unit 3. Day 9 and 10 Homework

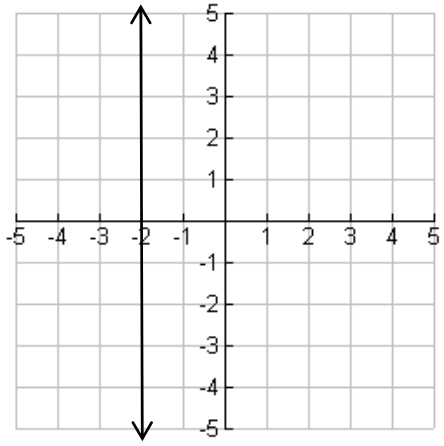
Domain and Range

Day 9 = Front and Day 10 = Back



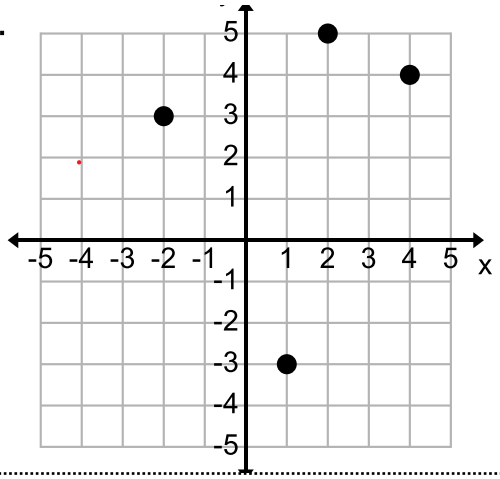
List the DOMAIN (inputs) & the RANGE (outputs) for the following graphs using inequality & interval notation:

1.



	Inequality	*Interval*
Domain:	$x = -2$	$[-2]$
Range:	$\mathbb{R}$	$(-\infty, \infty)$

2.

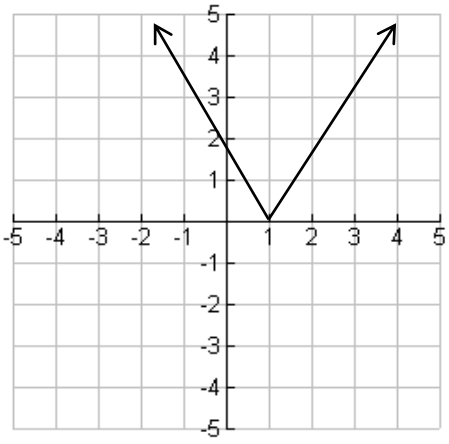


Domain: $-2, 1, 2, 4$

Range: $-3, 3, 4, 5$

$f(1) =$ 5 **Find x when $f(x) = 3$.** $x =$ -2

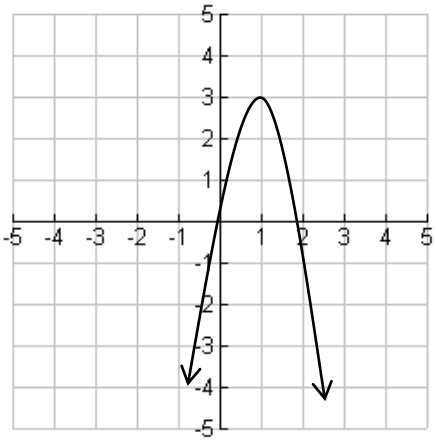
3.



	Inequality	*Interval*
Domain:	$\mathbb{R}$	$(-\infty, \infty)$
Range:	$y \geq 0$	$[0, \infty)$

Function? (YES) or NO (*circle one*)

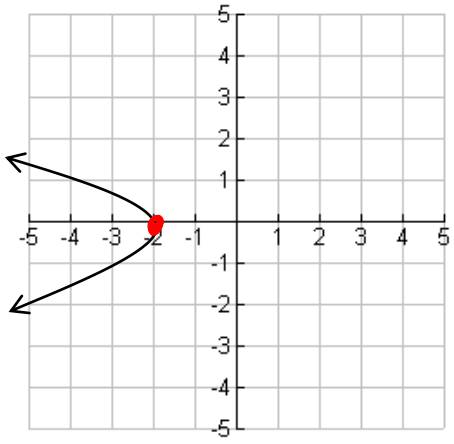
4.



	Inequality	*Interval*
Domain:	$\mathbb{R}$	$(-\infty, \infty)$
Range:	$y \leq 3$	$(-\infty, 3]$

Function? (YES) or NO (*circle one*)

5.

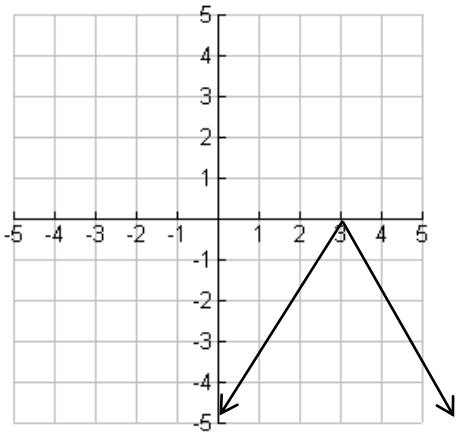


	Inequality	*Interval*
Domain:	$x \leq -2$	$(-\infty, -2]$
Range:	$\mathbb{R}$	$(-\infty, \infty)$

Function? YES or (NO) (*circle one*)

Day 10 HW on the back

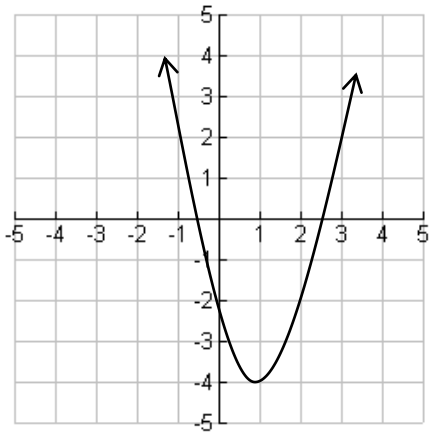
6.



	Inequality	*Interval*
Domain:	$\mathbb{R}$	$(-\infty, \infty)$
Range:	$y \leq 0$	$(-\infty, 0]$

Function? (YES) or NO (*circle one*)

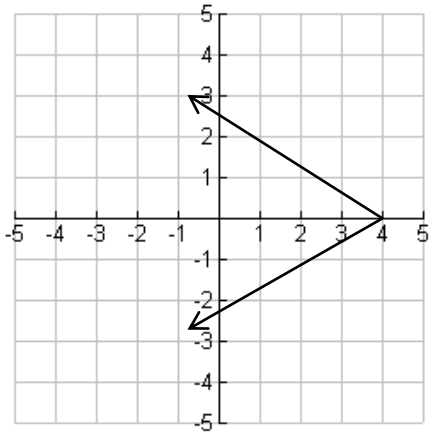
7.



	Inequality	*Interval*
Domain:	$\mathbb{R}$	$(-\infty, \infty)$
Range:	$y \geq -4$	$[-4, \infty)$

Function? (YES) or NO (*circle one*)

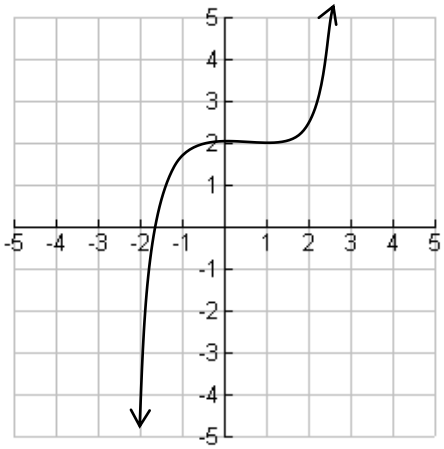
8.



	Inequality	*Interval*
Domain:	$x \leq 4$	$(-\infty, 4]$
Range:	$\mathbb{R}$	$(-\infty, \infty)$

Function? YES or (NO) (*circle one*)

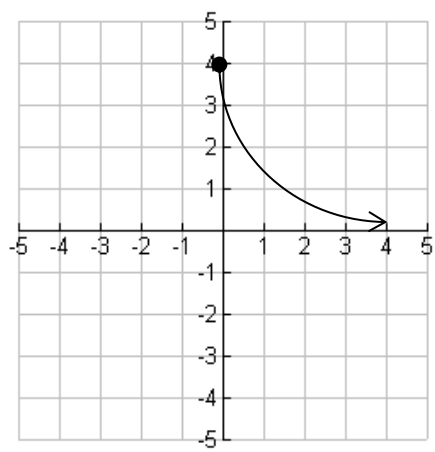
9.



	Inequality	*Interval*
Domain:	$\mathbb{R}$	$(-\infty, \infty)$
Range:	$\mathbb{R}$	$(-\infty, \infty)$

Function? (YES) or NO (*circle one*)

10.



	Inequality	*Interval*
Domain:	$x \geq 0$	$[0, \infty)$
Range:	$y \leq 4$	$(-\infty, 4]$

Function? (YES) or NO (*circle one*)

11. What is the difference between *domain* and *range*?

12. When do I "connect the dots" on a graph? When don't I?