4-4 Notes: Domain and Range

Remember:

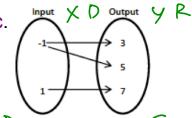
X	У	
Domain	Range	
Input	Output	
X	P(x)	

a.
$$(2,3)$$
, $(4,5)$, $(6,-2)$, $(5,7)$

Identify the Domain and Range of the following:
a.
$$(2,3)$$
, $(4,5)$, $(6,-2)$, $(5,7)$ (X, Y)
D: $\{2,4,6,5\}$ R: $\{3,5,-2,7\}$
b. $f(1) = 3$ $f(4) = -1$ $f(0) = 4$ $f(8) = 2$

b.
$$f(1) = 3$$
 $f(4) = -1$ $f(0) = 4$ $f(8) = 2$

C.



х	у
-2	-1
0	6
5	0
8	3

Interval Notation:

Used to represent an <u>in terval</u> (the space between two points.) Write the beginning and ending numbers of the interval.

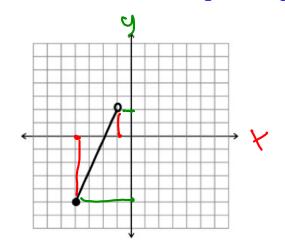
Starts Stops

	Graph	Interval Notation	
Included	•		(,]
Not Included	0	() ()	

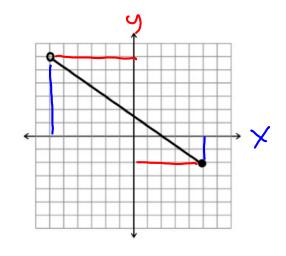
negative infinity $-\infty$ (goes forever in the negative direction) (goes forever in the positive direction)

Re-write the domain and range of the graphs above in interval notation

Write the domain and range of the graph in interval notation:



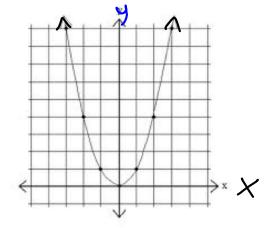
Write the domain and range of the graph in interval notation:



$$D:(-6,5]$$

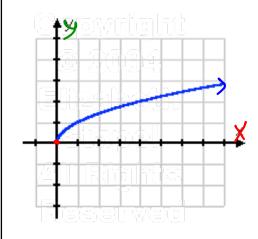
 $R:[-2,6)$

Write the domain and range of the graph in interval notation:

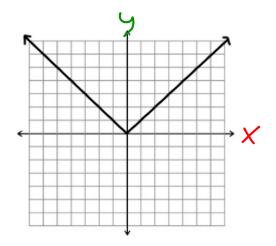


$$D:(-\infty,\infty)$$

Write the domain and range of the graph in interval notation:



Write the domain and range of the graph in interval notation:



$$P:(-\infty,\infty)$$

 $P:(0,\infty)$

Write the domain and range of the graph in interval notation:

