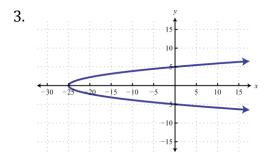
HW #70: SHOW ALL WORK on the worksheet

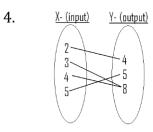
What is the definition of a function?

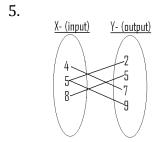
Explain whether the following relations are functions or not.

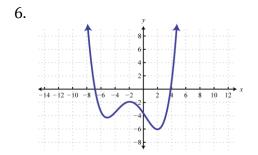
1.	Х	-1	0	2	-1	4
	У	3	6	7	3	8

2.
$$\{(1,4),(3,6),(5,7),(3,9),(8,10)\}$$

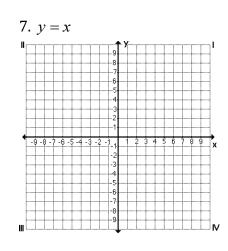


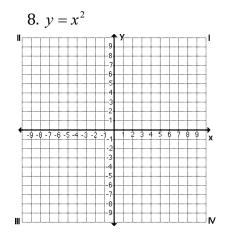


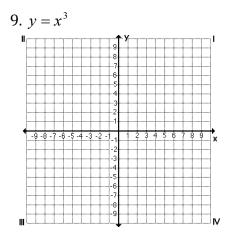




Sketch a graph of the following parent functions. Label *at least* 4 points on the graph for each.

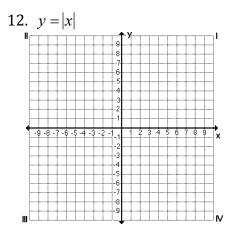






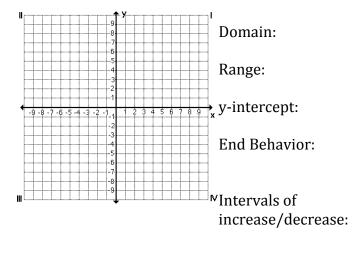
10.
$$y = \sqrt{x}$$

11.
$$y = \sqrt[3]{x}$$

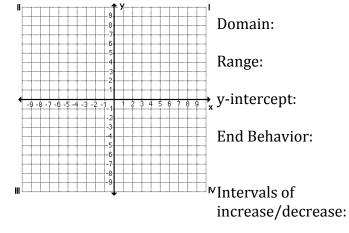


Graph the following transformations and identify the key characteristics listed.

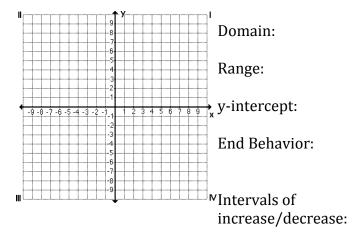
13.
$$f(x) = 2(x-1)^2 + 1$$



14.
$$f(x) = \frac{1}{2}x^3 - 3$$



15.
$$f(x) = \sqrt{x+3} - 2$$



16.
$$f(x) = -|x| + 4$$

