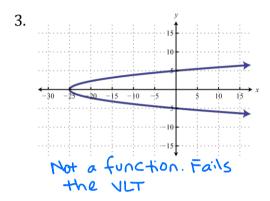
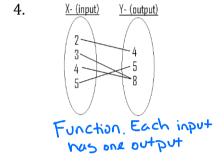
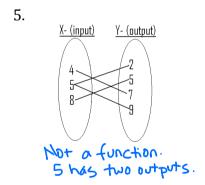
What is the definition of a function? Each input is paired with exactly one output

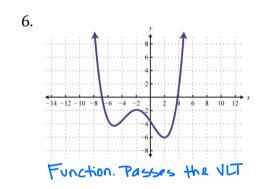
Explain whether the following relations are functions or not.

2. $\{(1,4),(3,6),(5,7),(3,9),(8,10)\}$ Not a function

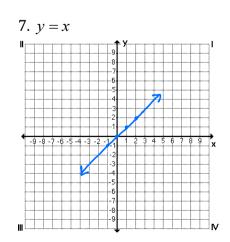


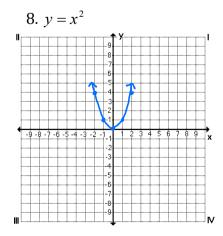


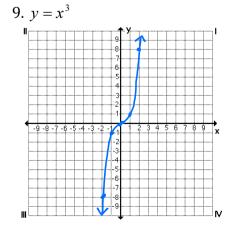




Sketch a graph of the following parent functions. Label *at least* 4 points on the graph for each.

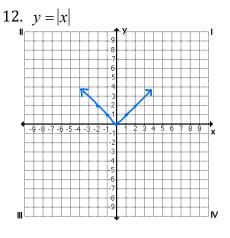






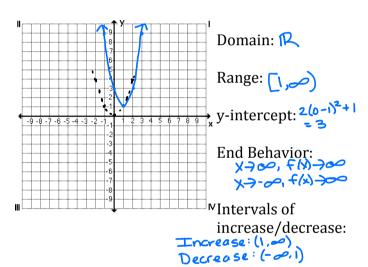
10.
$$y = \sqrt{x}$$

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

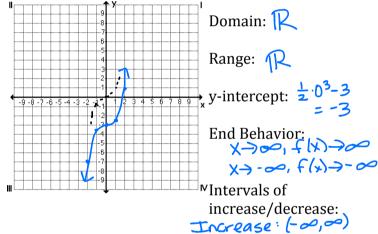


Graph the following transformations and identify the key characteristics listed.

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



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



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

