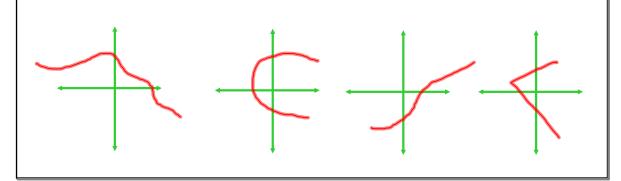
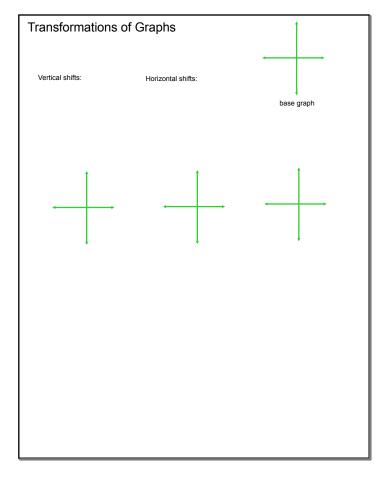
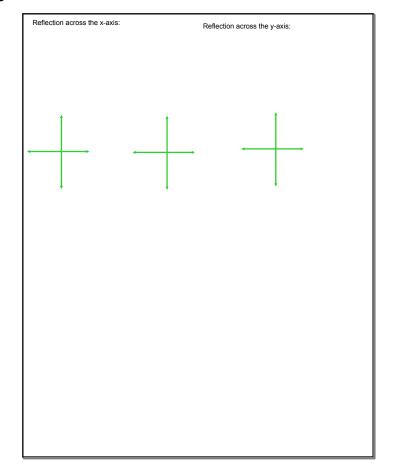


The Vertical line test states that <u>a graph is a function</u> if any vertical line only goes through at most one point on the graph.

Examples: Function or not?



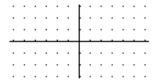




① EXAMPLE:

Sketch the graph. State the domain and range.

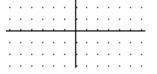
a)
$$f(x) = x^2-3$$

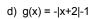


b)
$$f(x) = (x-4)^2$$



c)
$$f(x) = -\sqrt{(x+3)}$$







e)
$$h(x) = \begin{cases} 2-x^2 & \text{if } x \le 1 \\ x-2 & \text{if } x > 1 \end{cases}$$

