

Graph the given function using the given values of x . Also use the graph to determine the domain and range of the function.

$$h(x) = |x - 3|; \quad x = 0, 1, 2, 3, 4, 5, 6$$

Solution:

$$h(0) = |0 - 3| = |-3| = 3$$

$$h(1) = |1 - 3| = |-2| = 2$$

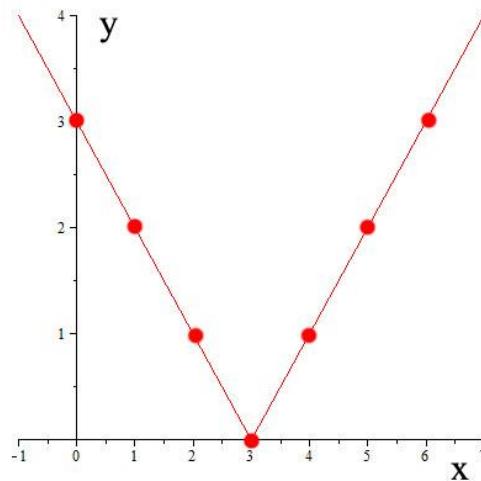
$$h(2) = |2 - 3| = |-1| = 1$$

$$h(3) = |3 - 3| = |0| = 0$$

$$h(4) = |4 - 3| = |1| = 1$$

$$h(5) = |5 - 3| = |2| = 2$$

$$h(6) = |6 - 3| = |3| = 3$$



Domain $x \in R$

Range $y \in [0, +\infty)$