3.5 Domain and Range

M & M ' s lab

Domain: The set of all possible x - values or values along the horizontal axis for a graph or table

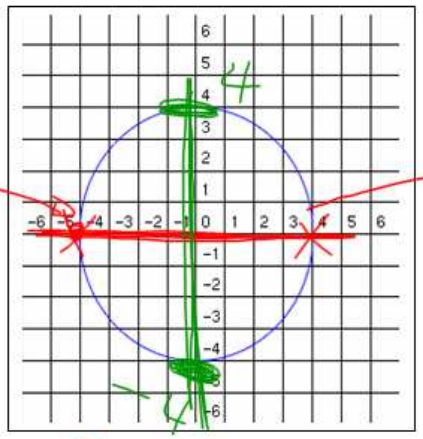
Range: The set of all possible y - values or values along the vertical axis for a graph or table

Determine the domain and range of each of the following

X	Y
7	19
9	27
11	38
13	45
15	56

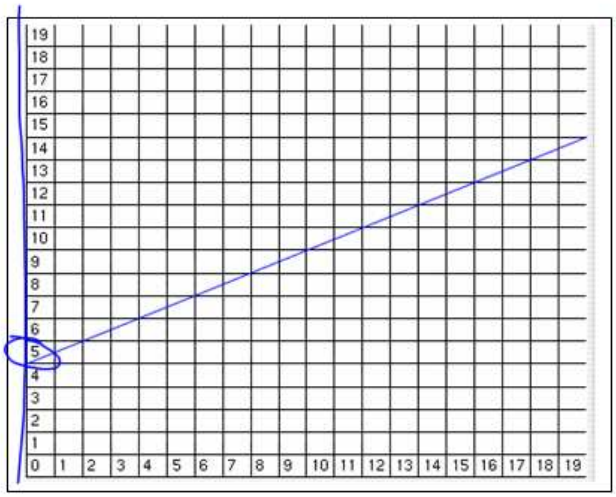
D: 7, 9, 11, 13, 15

R: 19, 27, 38, 45, 56



D: $-4 \leq x \leq 4$

R: $-4 \leq y \leq 4$



D: $x \geq 0$

R: $y \geq 5$

Peter works at Mcdonald's for $7.50 /hr. Last Saturday he worked an 8 hour shift

a) Complete the following table illustrating the total amount he earned.

Time Worked (Hr)	Total Earned ($)
1	7.50
2	15
3	22.50
4	30
5	37.50
6	45
7	52.50
8	60

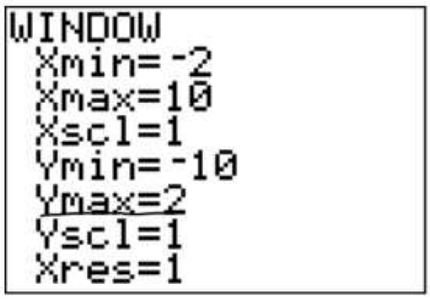
Domain

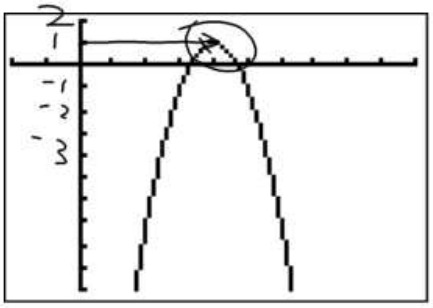
Range

b) Determine the domain and range for the above information

D: 1 – 8 R: See above

Graph the following function on your calculator and determine the domain and range $y = -2(x - 4)^2 + 1$





D: all real #'s

R: $y \leq 1$