

3.5 Domain and Range

M & M ' s lab

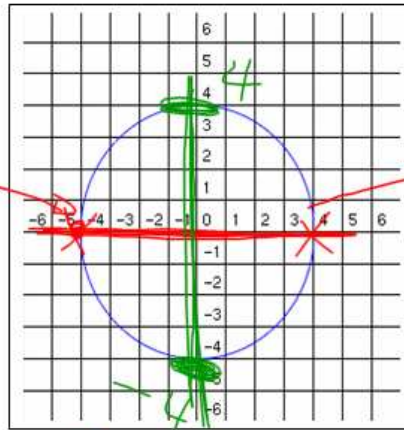
Domain: The set of all possible x - values or values along the horizontal axis for a graph or table

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

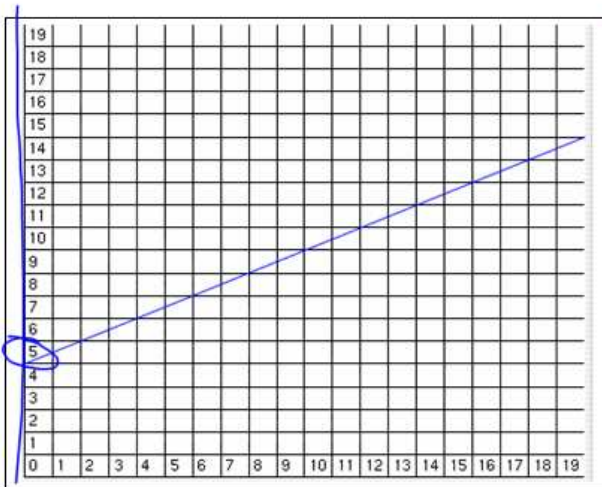
Determine the domain and range of each of the following

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

Handwritten annotations: A bracket on the left side of the table is labeled "Domain", and a bracket on the right side is labeled "Range".

b) Determine the domain and range for the above information

D: 1 - 8

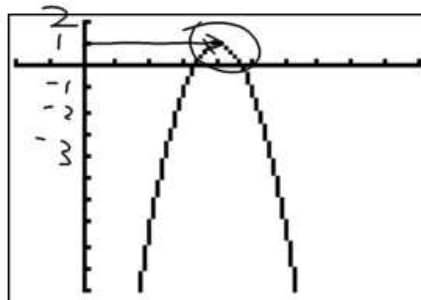
R:

See above

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

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WINDOW
Xmin=-2
Xmax=10
Xscl=1
Ymin=-10
Ymax=2
Yscl=1
Xres=1
    
```



D: all real #s

R: $y \leq 1$