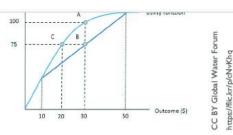
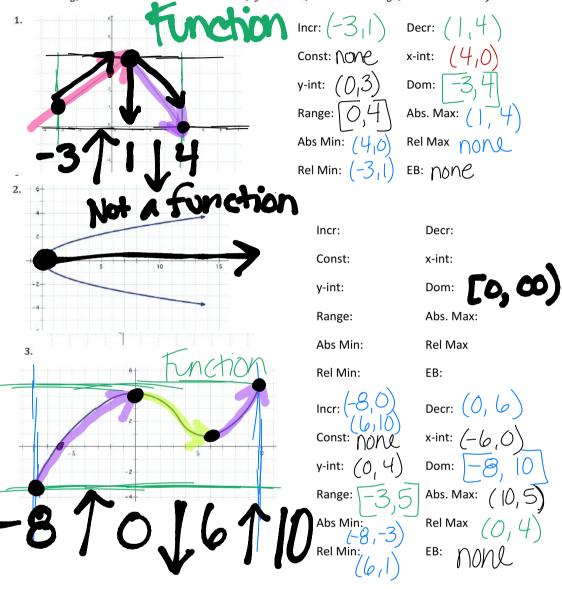
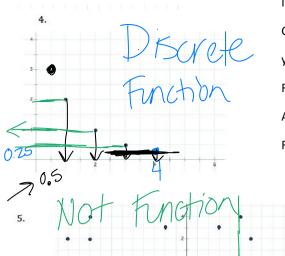
3.3 Features of Functions

A Practice Understanding Task



For each graph, determine if the relationship represents a function, and if so, state the key features of the function (key features include intercepts, intervals where the function is increasing or decreasing, relative maximums and minimums, symmetries, domain and range, and end behavior).





Incr: NONQ Decr: ∧○
✓

Const: NONL x-int: \\0\/\l

y-int: NON \$0.25,0.50 Range: Dom:

Abs. Max: (0,5,3)

Abs Min: (40.75) Rel Max none

Rel Min: North EB: North

Incr:

Decr:

Const:

x-int:

y-int:

Dom:

Range:

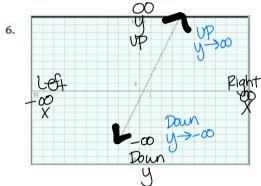
Abs. Max:

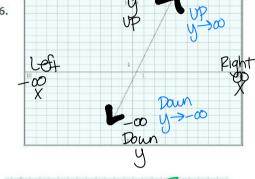
Abs Min:

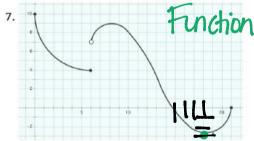
Rel Max

Rel Min:

EB:







Incr: (-00,00) Decr: none

Const: Nore

x-int: (0.5,6)

y-int: () |-|

Dom: (-00,00)

Range: (-0,00) Abs Min: Nove

Abs. Max: none

Rel Max M

Rel Min: roll

Incr:

Decr:

Const: now

x-int: (15,0)

y-int: (0,10)

(21,0)

Range:

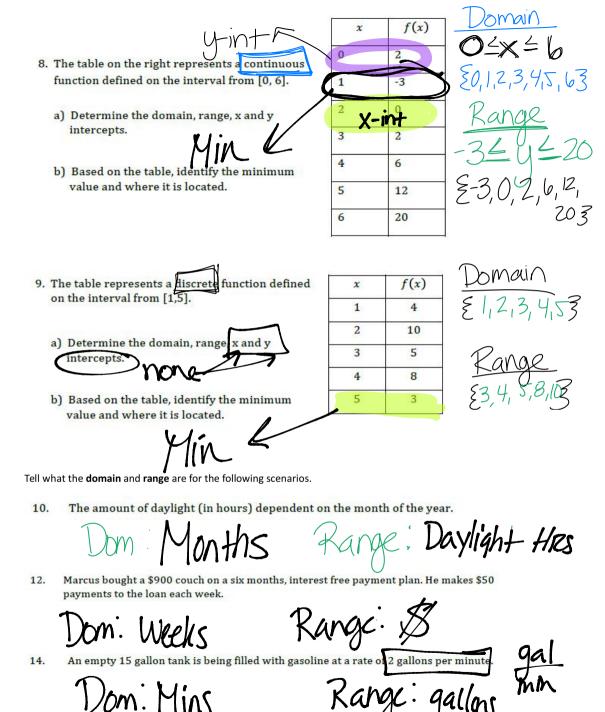
Abs. Max:

Abs Min: (18)

Rel Max

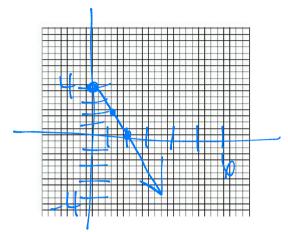
Rel Min:

EB: NON



For each equation, sketch a graph and describe the key features of the graph.

15.
$$f(x) = -2x + 4$$
, when $x \ge 0$

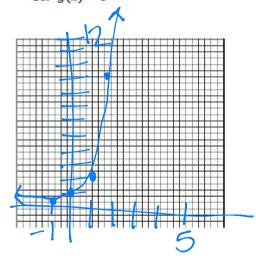


x	У
0	4
1	2
2	0
3	7-
4	-4
5	-6

Why did you start the x values at 0 here?

only worky down positive X-values

16.
$$g(x) = 3^x$$



x	у
-1	1/3
0	1
1	3
2	9
3	27
4	27 81