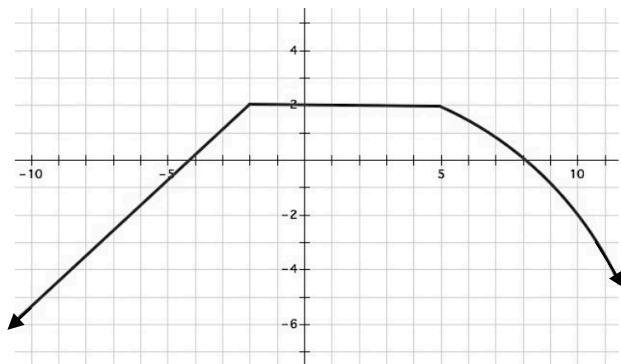AGS 1   Name: _____ Period: _____ Date: _____

Assignment 3.3 – Features of Function

Find the x and y intercepts from each graph, then find all other key features.

1.

Intervals of Increase:

Intervals of Decrease:

Constant Intervals:
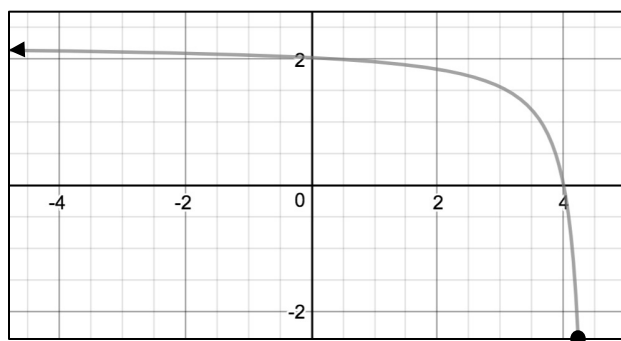
x – intercepts:

y – intercept: Domain:

Maximum:

Minimum: Range:

2.

Intervals of Increase:

Intervals of Decrease:

Constant Intervals:

x – intercepts:

y – intercept: Domain:
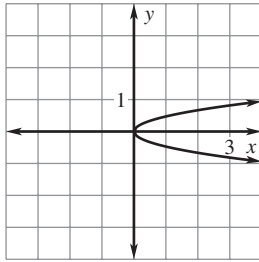
Maximum:

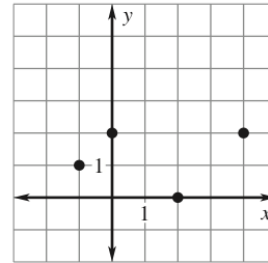Minimum: Range:

Use the vertical line test to determine whether the relation is a function, if it is not, identify where it fails the vertical line test.
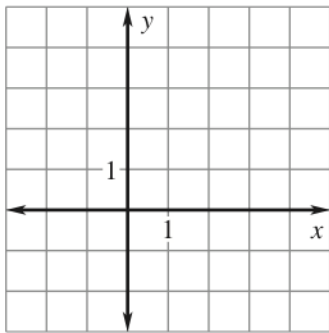
3.

4.

Graph the relation and tell whether the relation is a function. If it is not a function make sure you show the place that proves it is not a function.
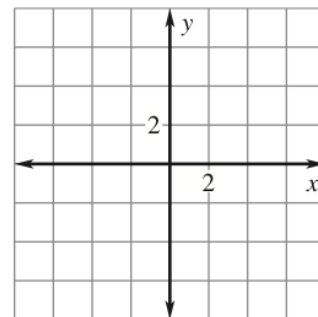
5.

x	0	1	2	3	4
y	3	1	2	4	2

6.

x	−2	−1	0	0	1
y	−3	−1	1	3	5

Refresh your memory.

Write equations for the given tables in both recursive and explicit form.

7.

n	f(n)
1	6
2	12
3	24

8.

n	f(n)
0	-13
2	-5
3	-1

Recursive:

Recursive:

Explicit:

Explicit: