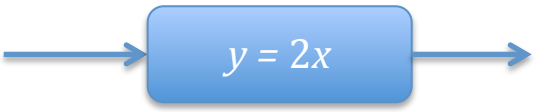
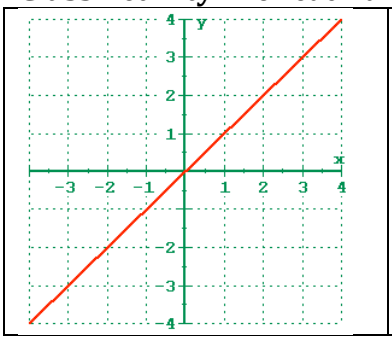
6.1 – Introduction to Functions

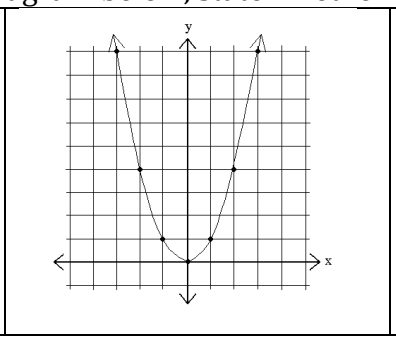
A function is rule that assigns exactly one output to each input.

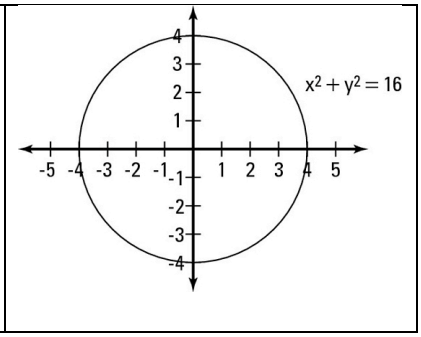


x	$2x$	y	(x,y)
-2	$2(-2)$	-4	(-2,-4)
-1	$2(-1)$	-2	(-1,-2)
0	$2(0)$	0	(0,0)
1	$2(1)$	2	(1,2)
2	$2(2)$	4	(2,4)

Class Activity - For each diagram below, state whether it is a function or not.







Linear Functions are _____

_____

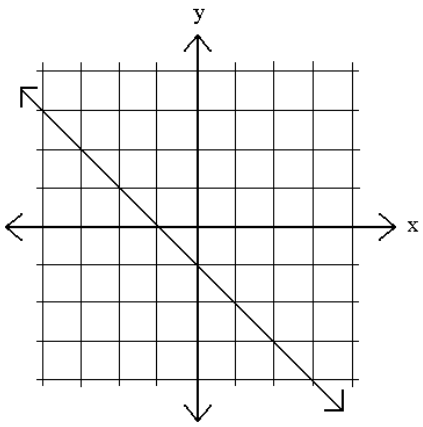
Non-Linear Functions are _____

_____

For each function in the class activity, state whether it is linear or non-linear.

For each graph, determine if it is a linear function, non-linear function, or not a function. Then create a table by using points found on the graph.

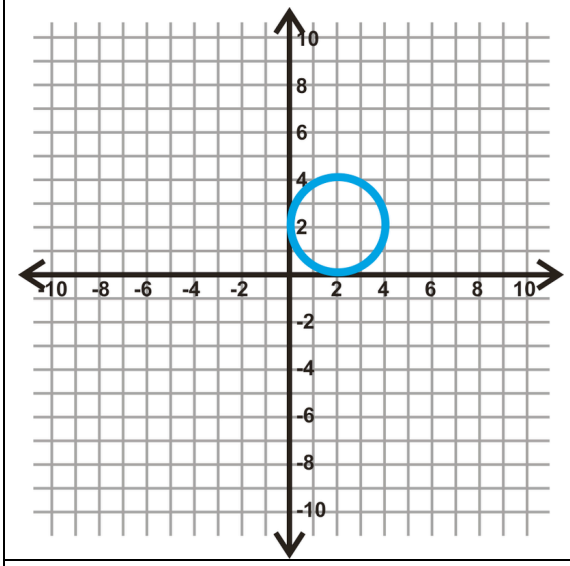
LP#1



- Linear Function
- Non-Linear Function
- Not a Function

x	*y*

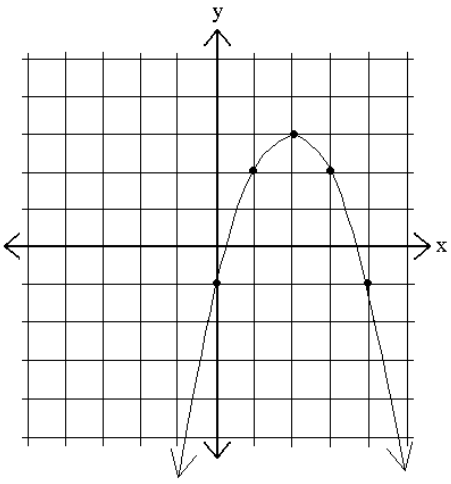
LP#2



- Linear Function
- Non-Linear Function
- Not a Function

x	*y*

LP#3

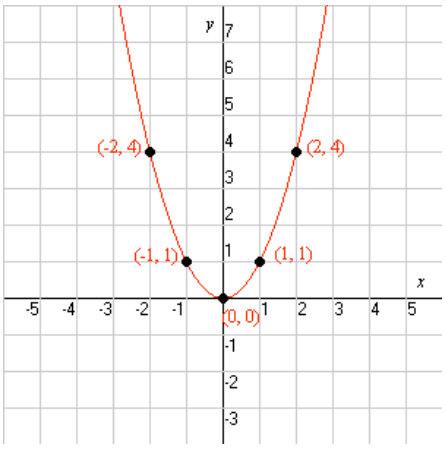


- Linear Function
- Non-Linear Function
- Not a Function

x	*y*

For each graph, determine if it is a linear function, non-linear function, or not a function. Then create a table by using points found on the graph.

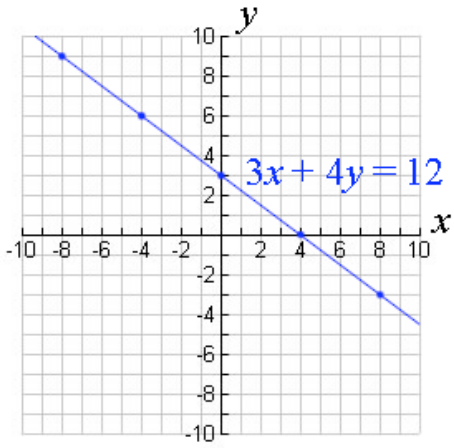
R#1



- Linear Function
- Non-Linear Function
- Not a Function

x	y

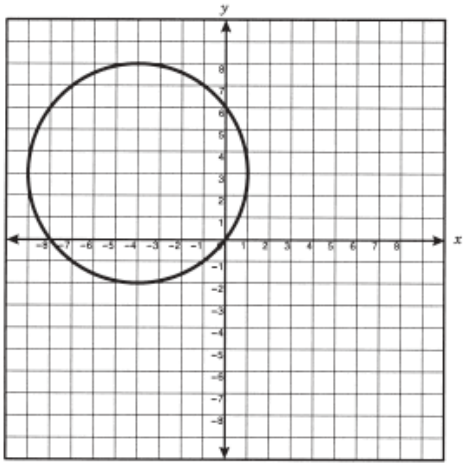
R#2



- Linear Function
- Non-Linear Function
- Not a Function

x	y

R#3



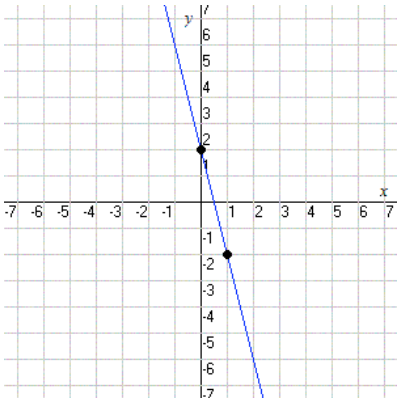
- Linear Function
- Non-Linear Function
- Not a Function

x	y

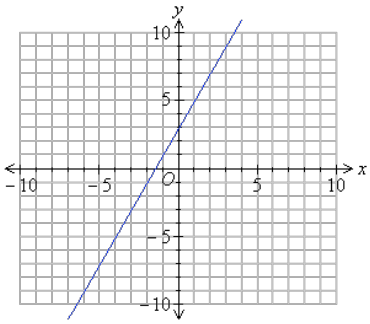
HOMEWORK

For each graph, determine if it is a linear function, non-linear function, or not a function. Then create a table and list at least 4 points found on the graph.

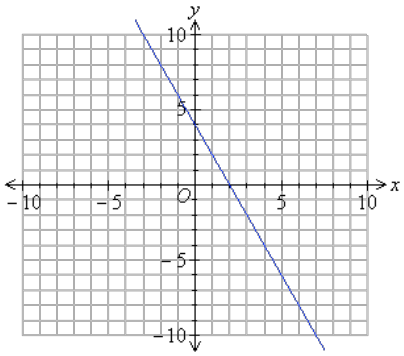
1.



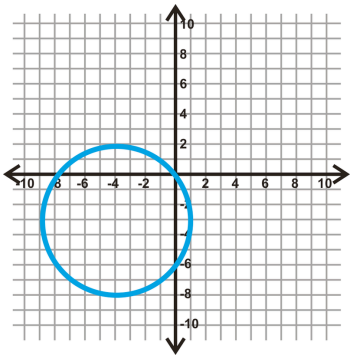
2.



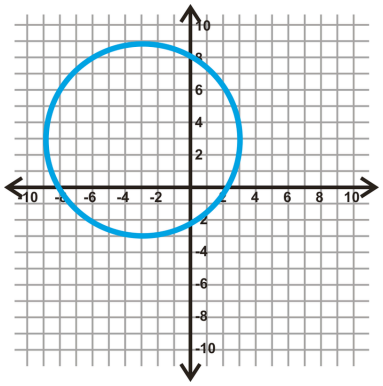
3.



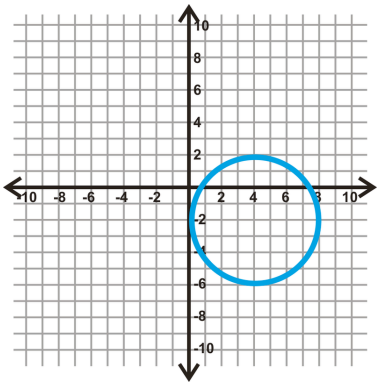
4.



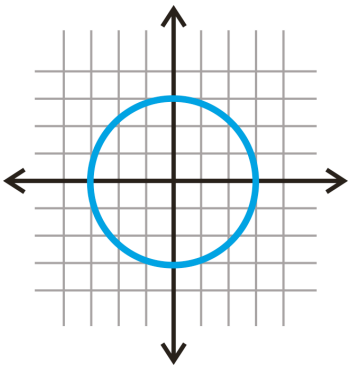
5.



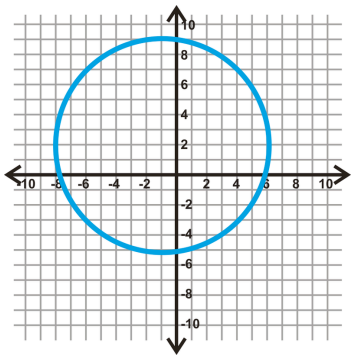
6.



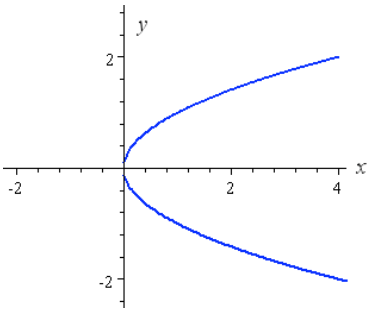
7.



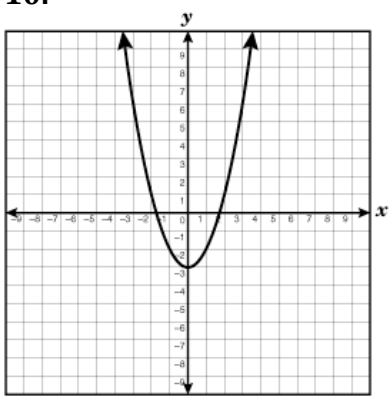
8.



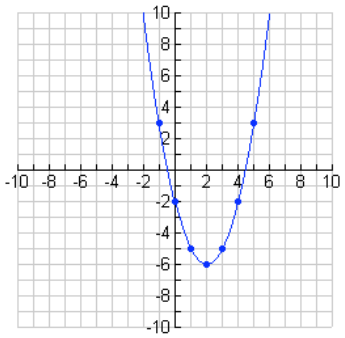
9.



10.



11.



12.