## 8.2 Function Notation & Graphing Nonlinear Functions DAY TWO CYU

☐ Use when you get it right all by yourself

\$ Use when you did it all by yourself, but made a silly mistake

#Use when you could do it alone with a little help from teacher or peer

 ${\it G}$  Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

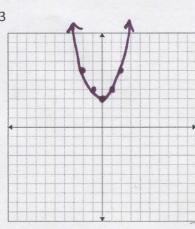
NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Using the calculator to graph	1 - 8		
Creating a table	1 - 8		
Plotting coordinates	1 - 8		
Real world application	9		
Simplifying radicals	10 - 13		

Graph each function by finding and plotting ordered pair solutions.

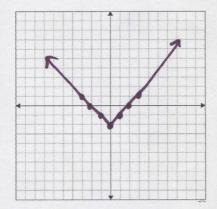
1. 
$$f(x) = x^2 + 3$$

Х	У
-2	7
-1	4
0	3
1	4
2	7



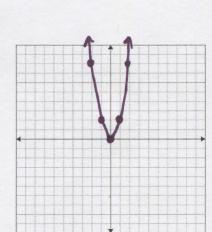
2. 
$$h(x) = |x| - 2$$

Х	У
-2	0
-1	-1
0	-2
1	-1
2	0



3. 
$$g(x) = 2x^2$$

Х	У
-2	8
-1	2
D	0
1	2
2	8

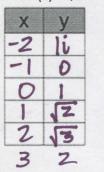


4. 
$$f(x) = |x-2|$$

X	У
-2	4
-1	3
0	2
1	I
2	0

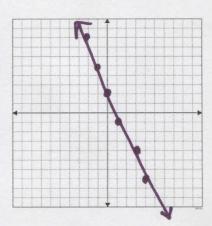




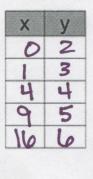




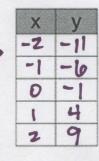
Х	У
-2	8
0	2
J	-1
2	-4
3	-7

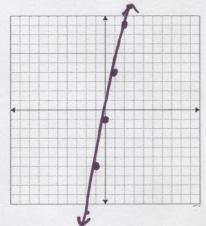


7. 
$$h(x) = \sqrt{x} + 2$$









The dosage in milligrams D of Ivermectin, a heartworm preventative for a dog who weighs x pounds is given by  $D(x) = \frac{136}{25}x$ .

9. Find the proper dosage for a dog that weighs 30 pound & 50 pounds.

## 163.2 mg; 272 mg

Simplify the following roots.

11. 
$$2\sqrt{9}$$

12. 
$$-\sqrt{36}$$

13. 
$$\sqrt{\frac{16}{121}} = \sqrt{\frac{16}{121}}$$

CYU Reflection: How far can you go: basic, intermediate, or advanced?

## Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

