

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

Use when you get it right all by yourself

**S** Use when you did it all by yourself, but made a silly mistake

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

**G** Use when you completed the problem in a group

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

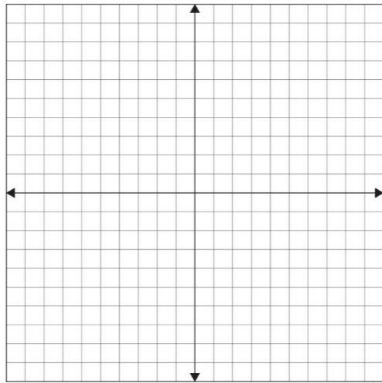
**N** Use when a question was not even attempted

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.

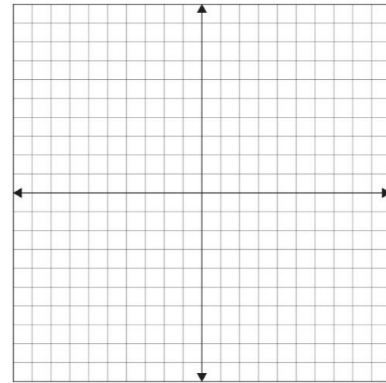
1.  $f(x) = x^2 + 3$

x	y



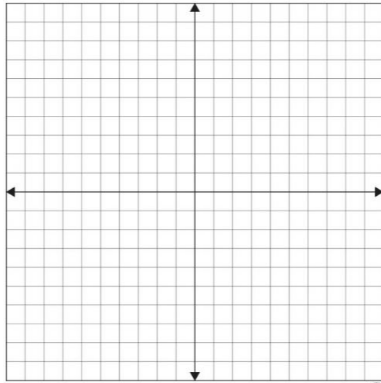
2.  $h(x) = |x| - 2$

x	y



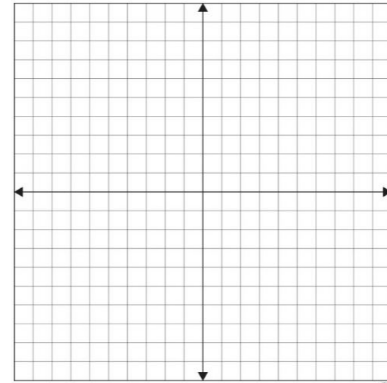
3.  $g(x) = 2x^2$

x	y



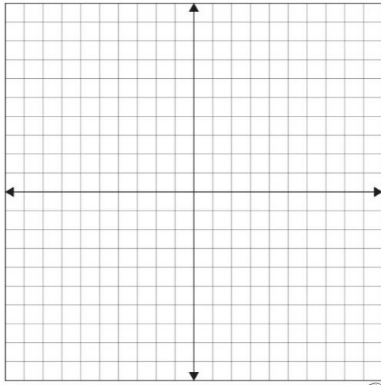
4.  $f(x) = |x - 2|$

x	y



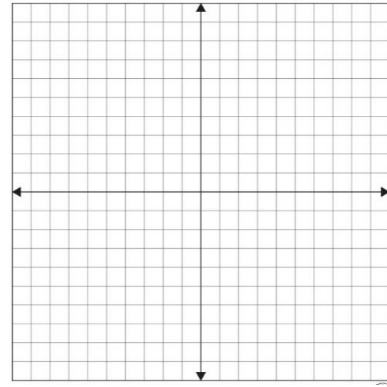
5.  $f(x) = \sqrt{x + 1}$

x	y



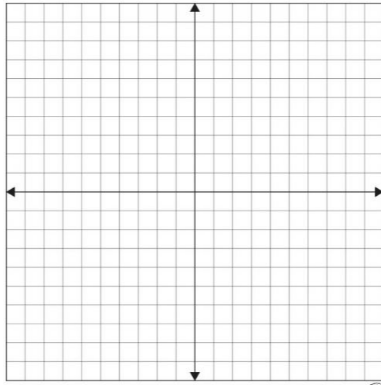
6.  $j(x) = -3x + 2$

x	y



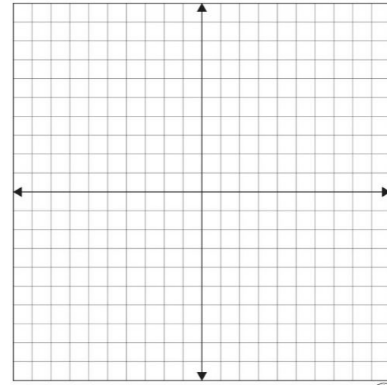
7.  $h(x) = \sqrt{x} + 2$

x	y



8.  $g(x) = 5x - 1$

x	y



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.

Simplify the following roots.

10.  $\sqrt{-25}$

11.  $2\sqrt{9}$

12.  $-\sqrt{36}$

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

**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.

