Name _____ Date _____ Pd ____

8.2 Function Notation & Graphing Nonlinear Functions DAY TWO CYU

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		

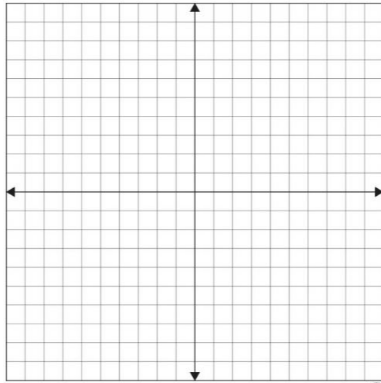*Graph each function by finding and plotting ordered pair solutions.*
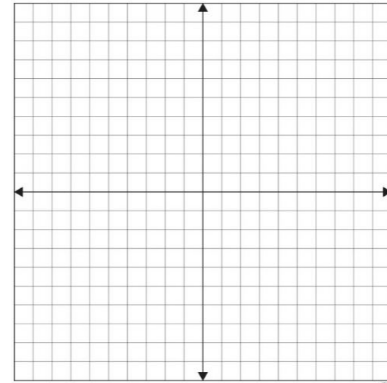
1. $f(x) = x^2 + 3$

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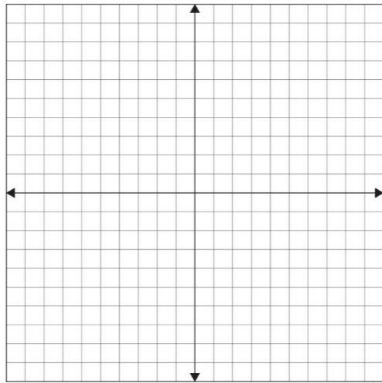
2. $h(x) = |x| - 2$

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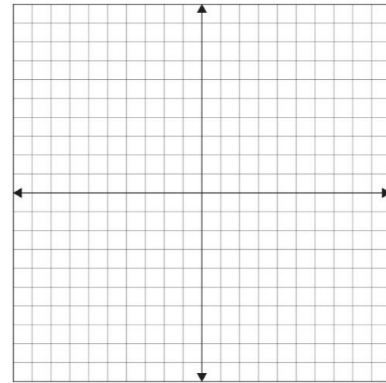
3. $g(x) = 2x^2$

x	y

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

x	y

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

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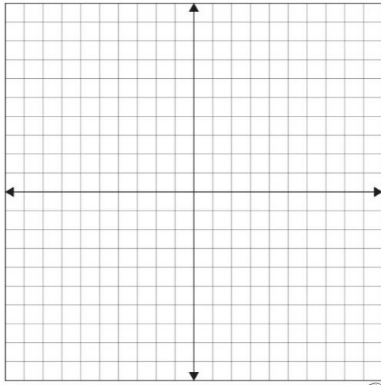
6. $j(x) = -3x + 2$

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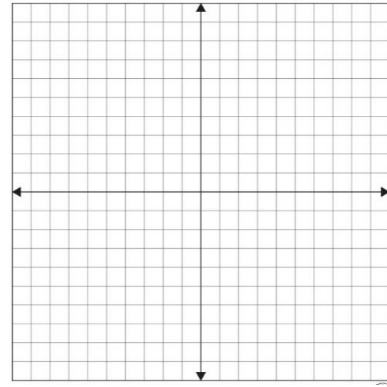
7. $h(x) = \sqrt{x} + 2$

x	y
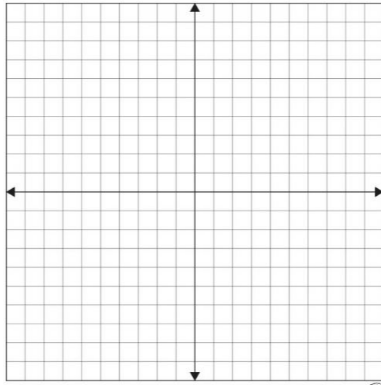
8. $g(x)\ 5x - 1$

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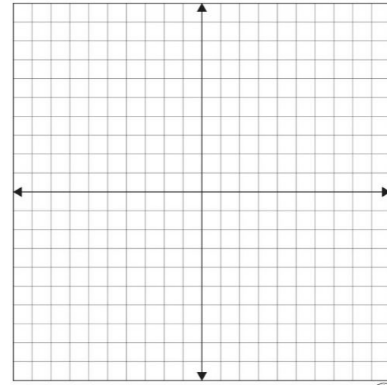
The dosage in milligrams D of Ivermectin, a heartworm preventative for a dog who weighs x pounds is given by $D(x) = \frac{136}{25}x.$

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