

Name: _____

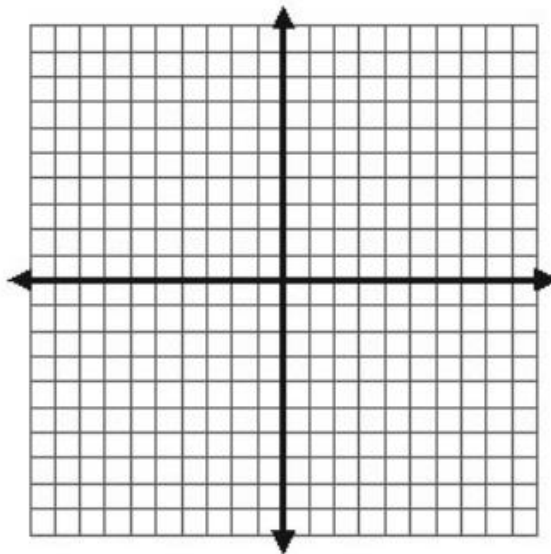
Date: _____ Per: _____

Algebra 2: Graphing Radical Functions

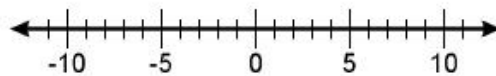
On each page, complete the table(s), graph the function(s), and indicate the domain for each. Graphs that contain more than one function should be completed with each function in a different color.

$$f(x) = \sqrt{x}$$

x	-4	-3	-2	-1	0	1	2	3	4
f(x)									



On the number line, plot the x-values for which the function is defined:



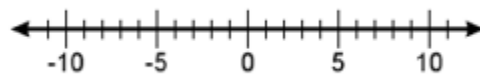
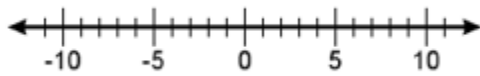
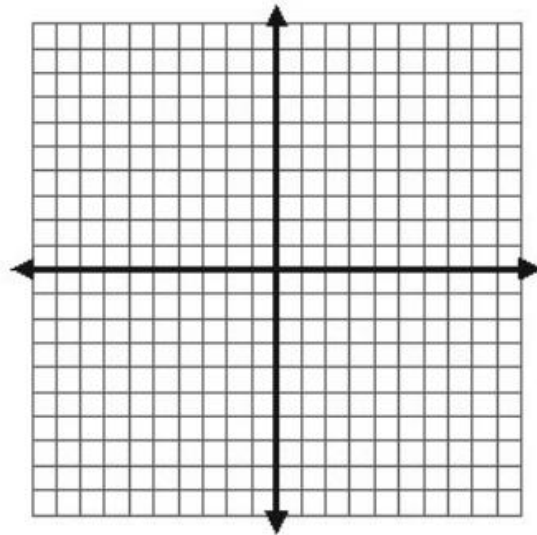
Describe the domain and range of the function :

$$f(x) = \sqrt{x+2}$$

$$f(x) = \sqrt{x-2}$$

x	-4	-3	-2	-1	0	1	2	3	4
f(x)									

x	-4	-3	-2	-1	0	1	2	3	4
f(x)									



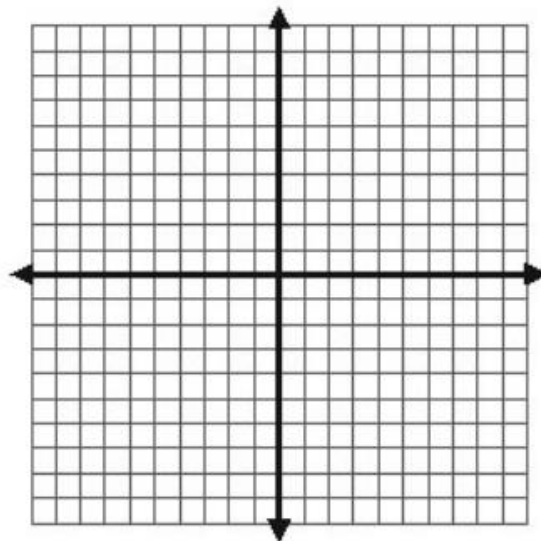
Describe the domain and range of each function:

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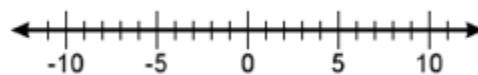
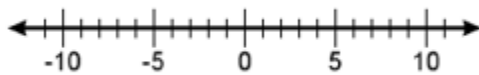
$$f(x) = \sqrt{x} + 4 \quad f(x) = \sqrt{x} - 4$$

x	-4	-3	-2	-1	0	1	2	3	4
f(x)									

x	-4	-3	-2	-1	0	1	2	3	4
f(x)									



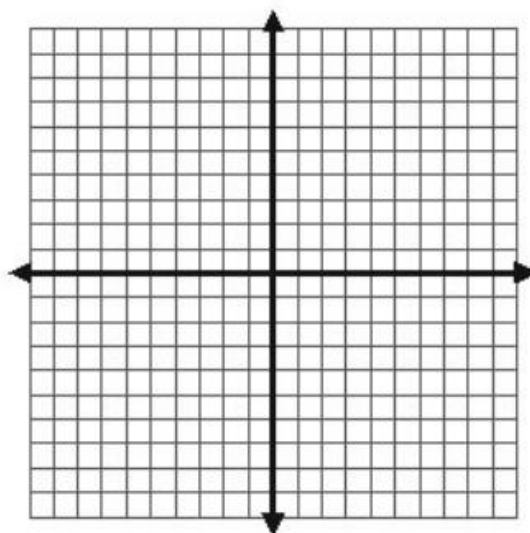
On the number line, plot the x-values for which the function is defined:



Describe the domain and range of each function :

$$f(x) = \sqrt{x} \quad g(x) = 2\sqrt{x} \quad h(x) = \frac{1}{2}\sqrt{x}$$

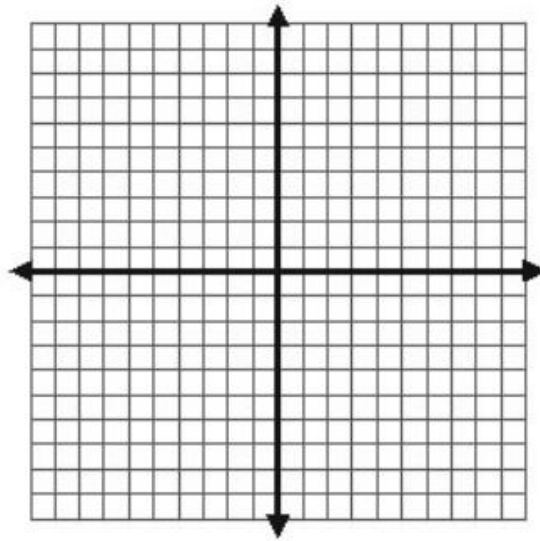
x	-4	-3	-2	-1	0	1	2	3	4
f(x)									
g(x)									
h(x)									



Describe the domain and range of each function :

$$f(x) = \sqrt[3]{x}$$

x	-4	-3	-2	-1	0	1	2	3	4
f(x)									



Describe the domain and range of the function:
