

Name _____

Date _____

8A; Algebra 1

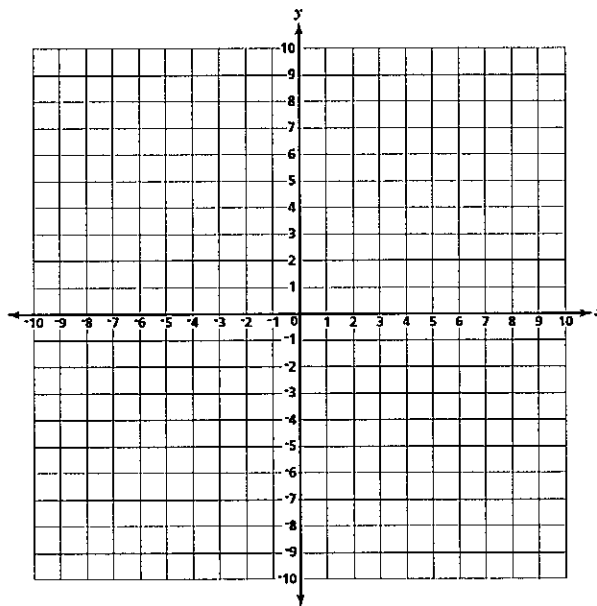
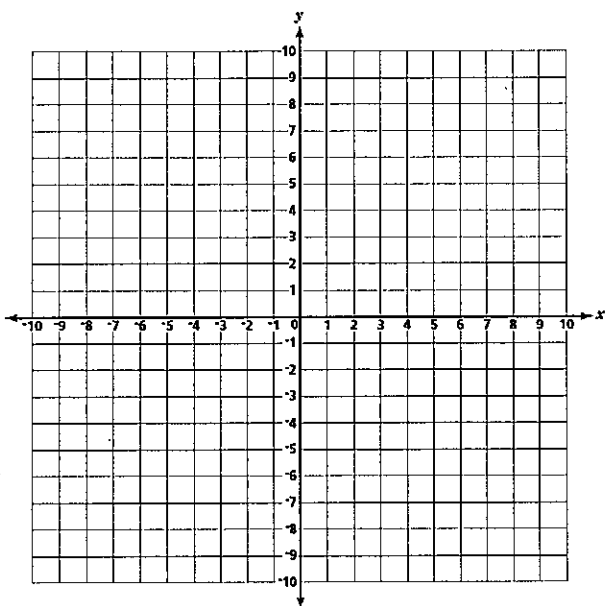
Period _____

Homework

#'s 1-4: Graph the following square roots functions. Make sure you include your table of values.

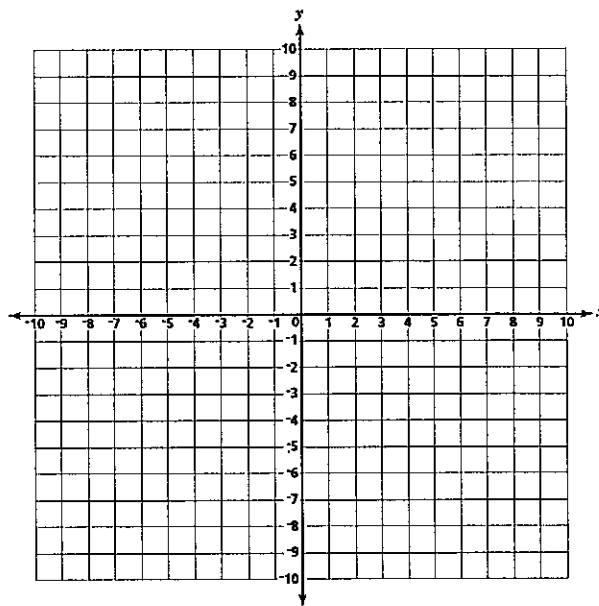
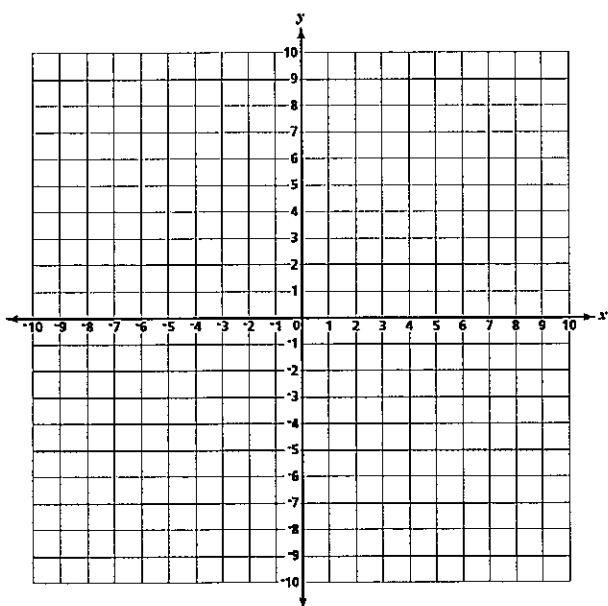
1) $f(x) = \sqrt{x-3}$ Domain: _____

2) $f(x) = \sqrt{x} + 1$ Domain: _____



3) $f(x) = -\sqrt{x-2} + 5$ Domain: _____

4) $f(x) = 2\sqrt{x-4} + 1$ Domain: _____



#'s 5-8: Describe the transformation on each function, from the parent function $f(x) = \sqrt{x}$

5) $k(x) = 2\sqrt{x+1} - 2$

6) $g(x) = \sqrt{x-1}$

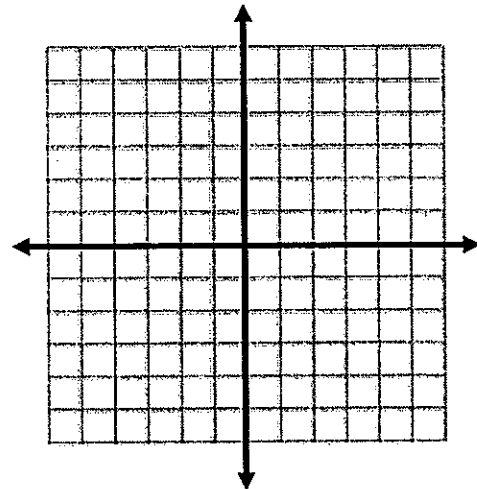
7) $h(x) = -\sqrt{x} + 5$

8) $p(x) = -3\sqrt{x+3} + 5$

9) Use the table below to find the values of $f(x)$ given the x -values in the table. Then graph the function.

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

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



What effect does the negative on the inside of the square root have on the graph?

#10 & 11: Use the description to write the square root function g .

10) The parent function $f(x) = \sqrt{x}$ is reflected across the y -axis, translated 3 units down, and 7 units left.

11) The parent function $f(x) = \sqrt{x}$ is translated 2 units right, 5 units down and reflected across the x -axis.