

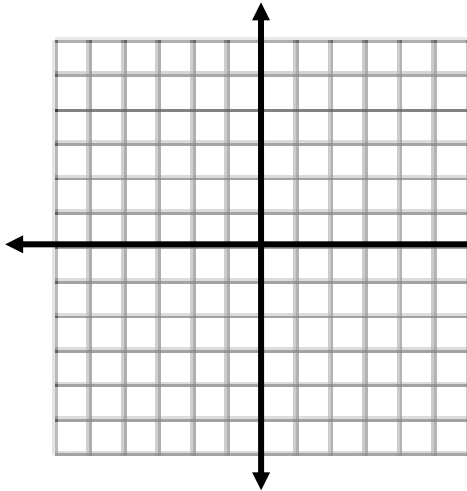
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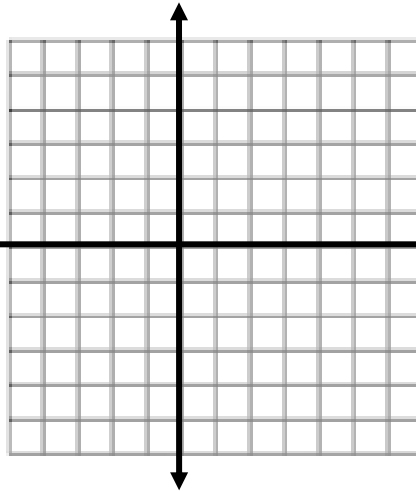
Homework : Graphing Square Roots

Find the vertex (starting point) of each square root function. Then graph.

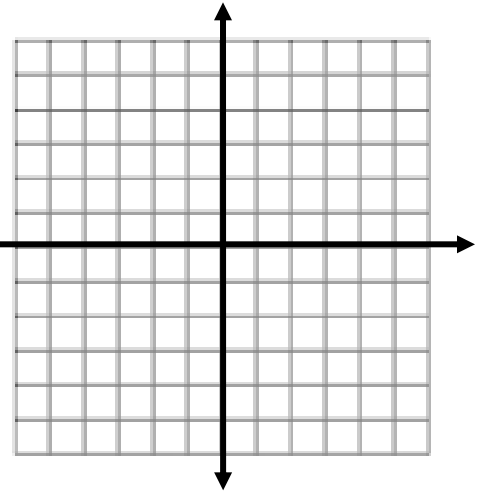
1. $y = -\sqrt{x+2}$



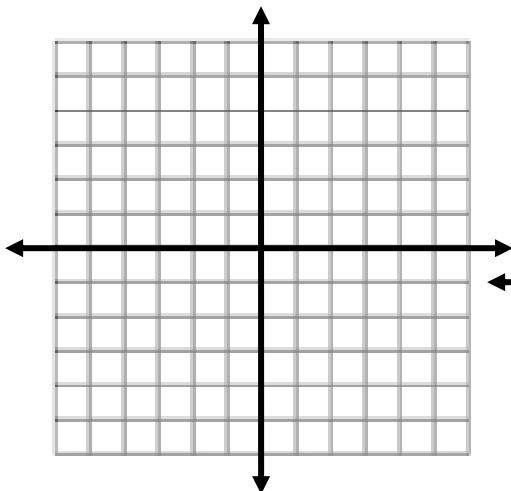
2. $y = \sqrt{x-3}$



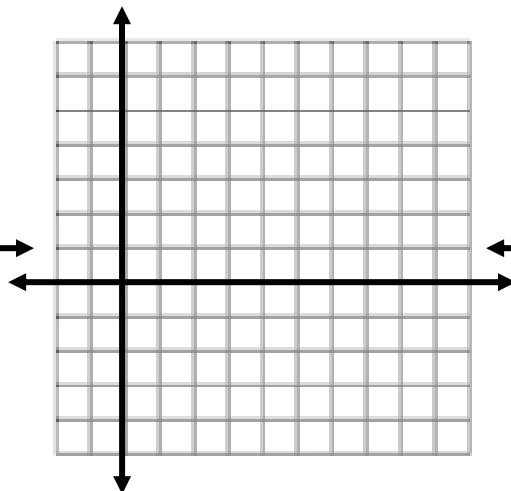
3. $y = \sqrt{x+1}$



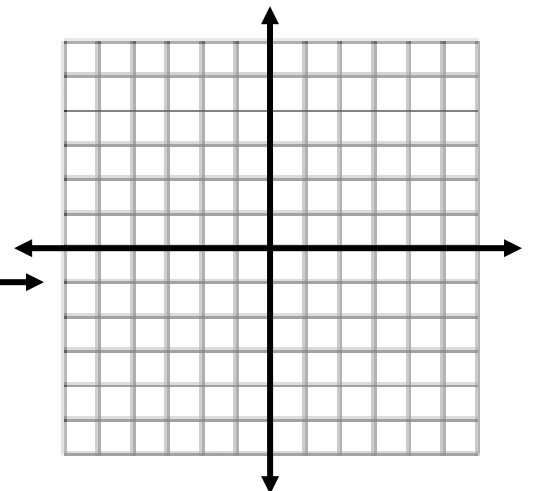
4. $y = -\sqrt{x-1}$



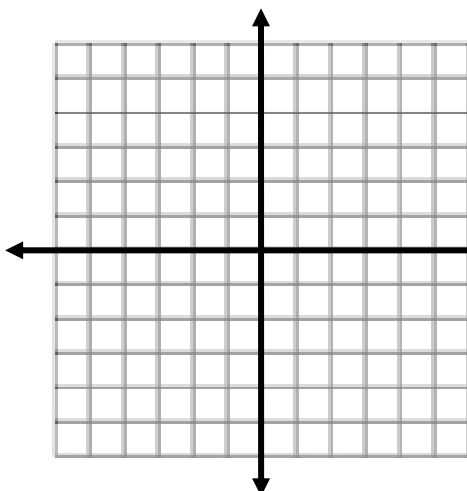
5. $y = 2\sqrt{x-4} + 2$



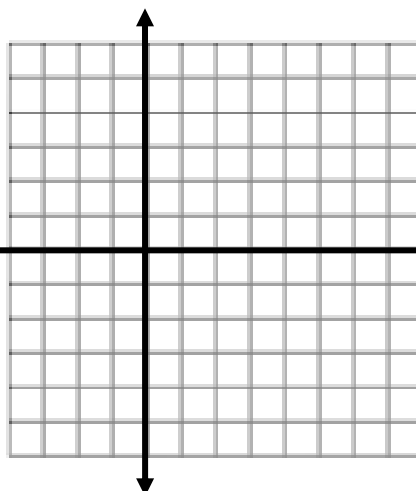
6. $y = -3\sqrt{x+2} - 1$



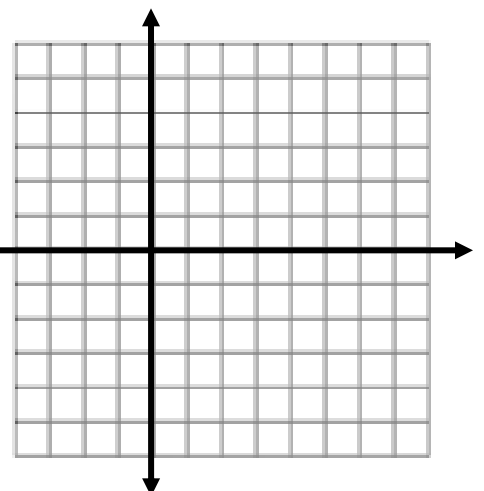
7. $y = \sqrt{x+2} - 6$



8. $y = -\sqrt{x-2} + 3$



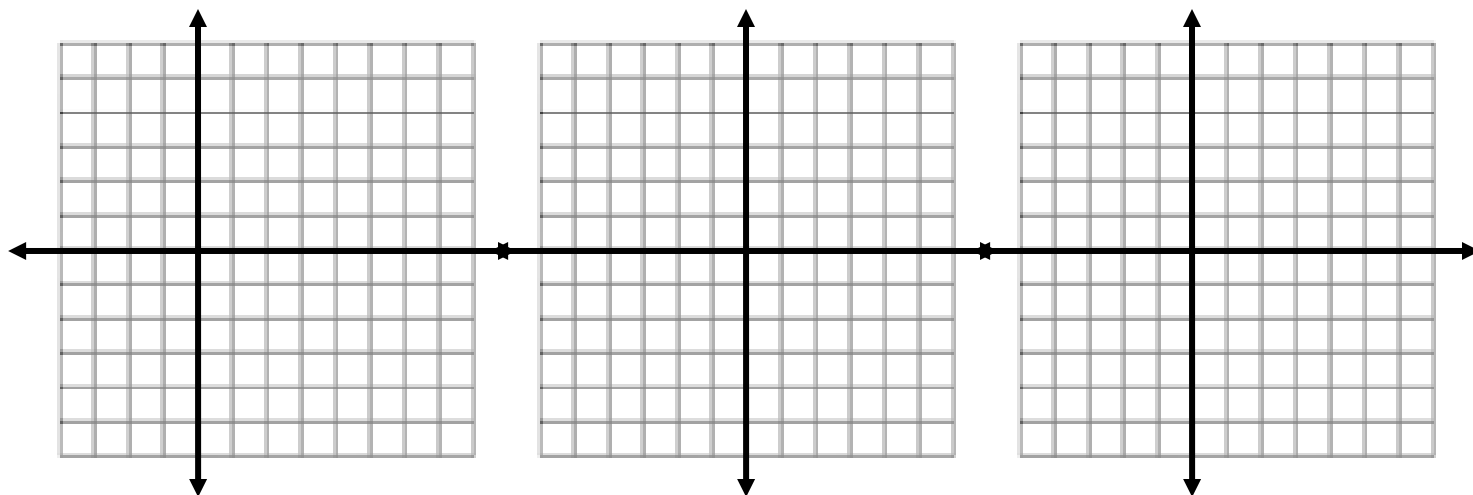
9. $y = -\sqrt{x-3} + 3$



10. $y = 2\sqrt{x - 4} + 1$

11. $y = \sqrt{x - 1} - 5$

12. $y = -\sqrt{x - 2} + 5$



Describe the transformation on each function, from the parent function $f(x) = \sqrt{x}$.

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

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

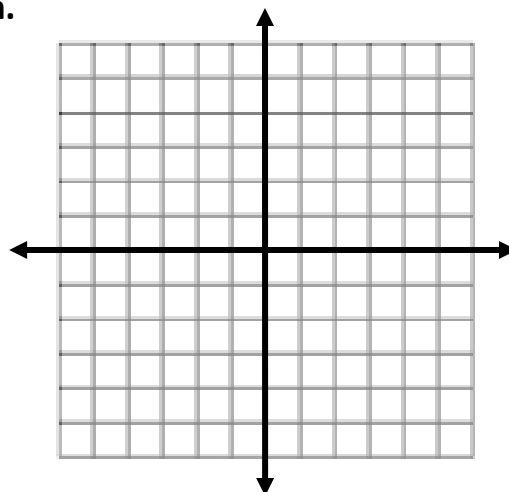
15. $h(x) = -\sqrt{x} + 5$

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

Use the table below to find the values of $f(x)$ given the x -values in the table (i.e. plug in). Then use the points in the table to 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?
