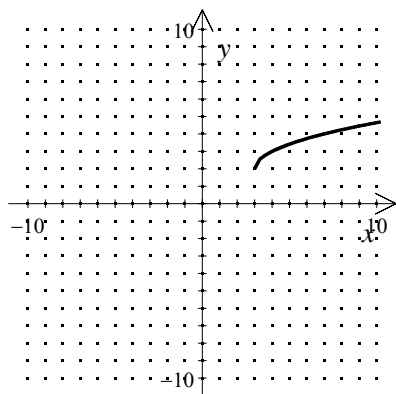


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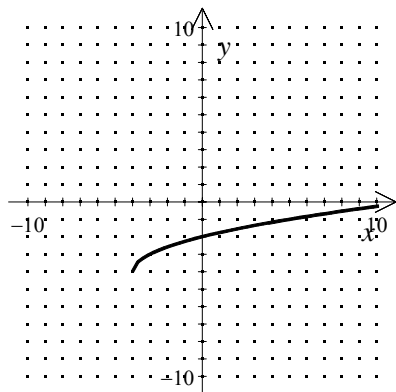
1. Which equation would result in the graph shown?



- [A] $y = \sqrt{x+3} - 2$ [B] $y = \sqrt{x-3} - 2$
[C] $y = \sqrt{x-3} + 2$ [D] $y = \sqrt{x+3} + 2$

[1] _____

2. Which equation would result in the graph shown?



- [A] $y = \sqrt{x-4} + 4$ [B] $y = \sqrt{x+4} + 4$
[C] $y = \sqrt{x-4} - 4$ [D] $y = \sqrt{x+4} - 4$

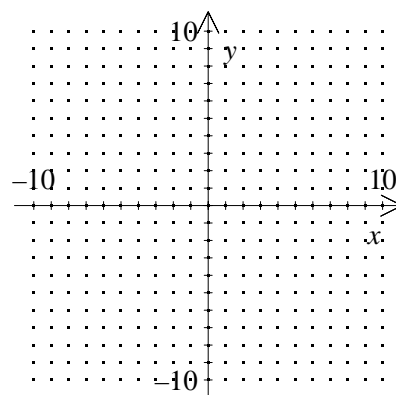
[2] _____

3. In which of the following quadrants will your calculator display the graph of $y = \sqrt{x} - 5$?

- [A] I only [B] I and II [C] I and IV
[D] I, II, and III [E] IV only

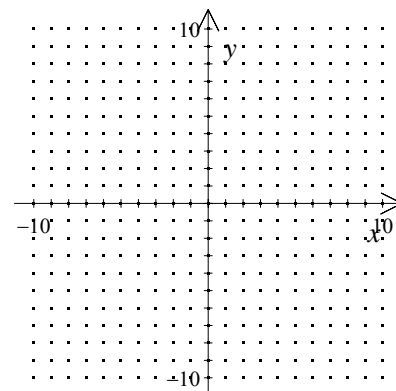
[3] _____

4. (a) State the domain of $f(x) = \sqrt{x+1}$.
(b) Graph the function and state the range.



[4] _____

5. Graph the function by using a translation of
 $y = \sqrt{x}$.
 $y = \sqrt{x+1}$



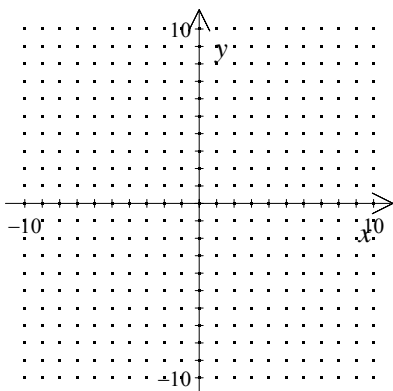
[5] _____

NAME: _____

6. Graph the function by using a translation of

$$y = \sqrt{x}.$$

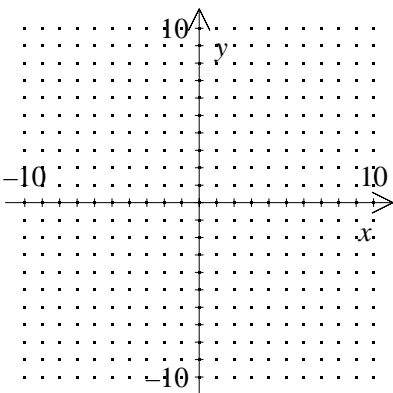
$$y = \sqrt{x-1} - 3$$



[6] _____

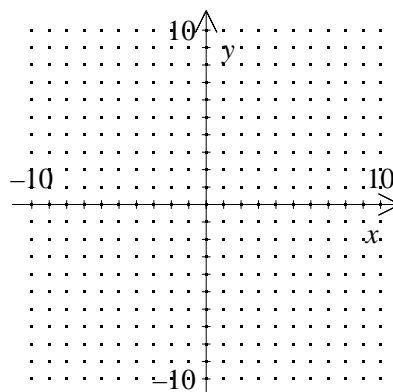
Graph:

$$7. f(x) = \sqrt{x} + 1$$



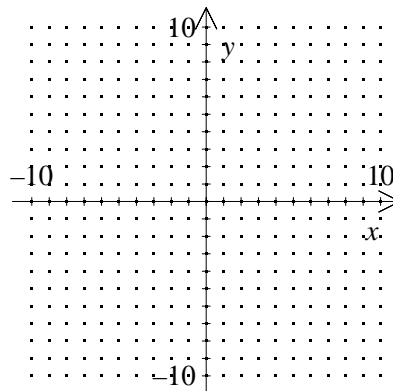
[7] _____

$$8. f(x) = \sqrt{x} + 5$$



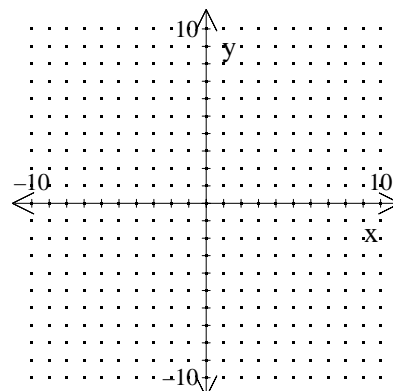
[8] _____

$$9. f(x) = \sqrt{x} - 1$$



[9] _____

10. Use a graphing calculator to graph the function $y = \sqrt{x+2} - 1$.



[10] _____

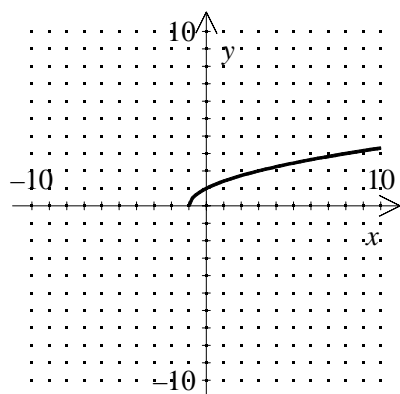
[1] C

[2] D

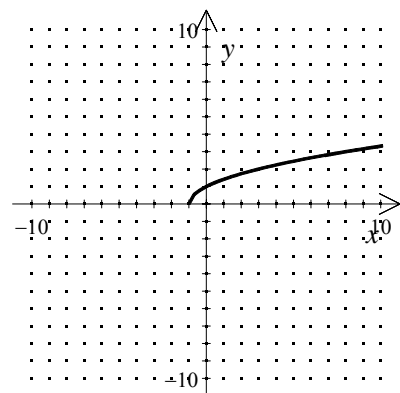
[3] C

(a) domain: $\{x|x \geq -1\}$

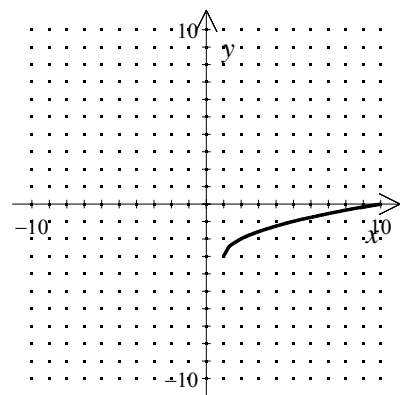
(b) range: $\{y|y \geq 0\}$



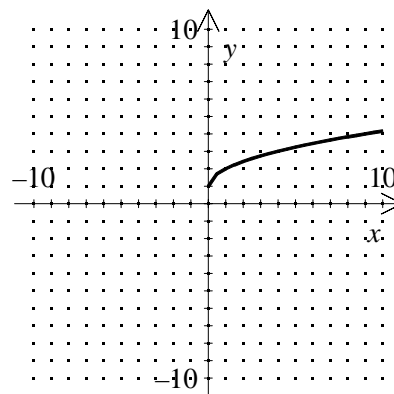
[4] _____



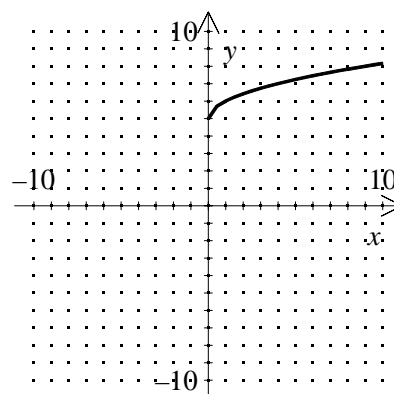
[5] _____



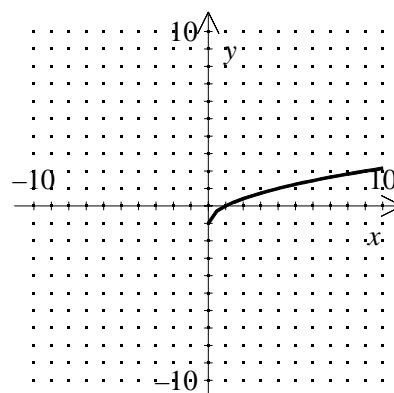
[6] _____



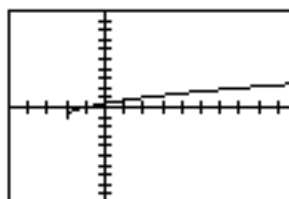
[7] _____



[8] _____



[9] _____



[10] _____