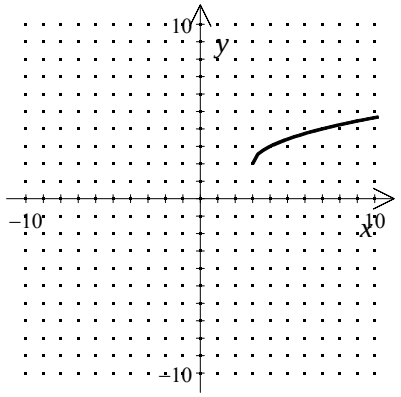
NAME:_____

1. Which equation would result in the graph shown?

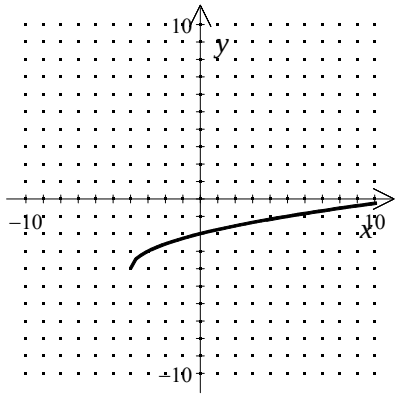



[A] $y = \sqrt{x+3} - 2$ [B] $y = \sqrt{x-3} - 2$

[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] _____

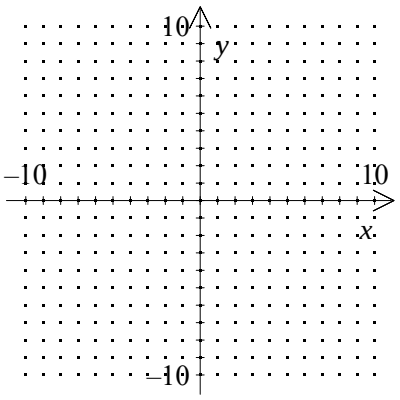
3. In which of the following quadrants will your calculator display the graph of $y = \sqrt{x} - 5$?

[A] I only [B] I and II [C] I and IV

[D] I, II, and III [E] IV only

[3] _____

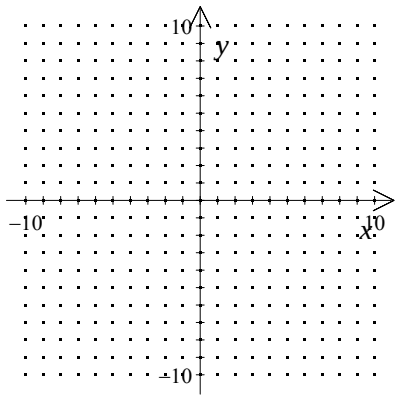
4. (a) State the domain of $f(x) = \sqrt{x+1}$.
(b) Graph the function and state the range.




[4] _____

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

$y = \sqrt{x+2}$

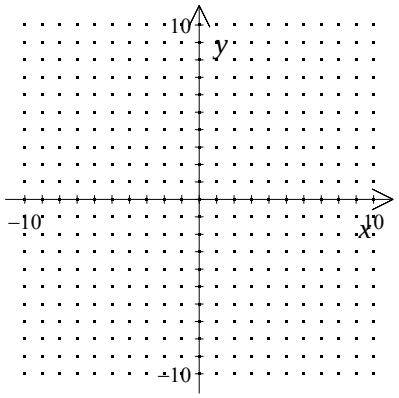



[5] _____

NAME:_____

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

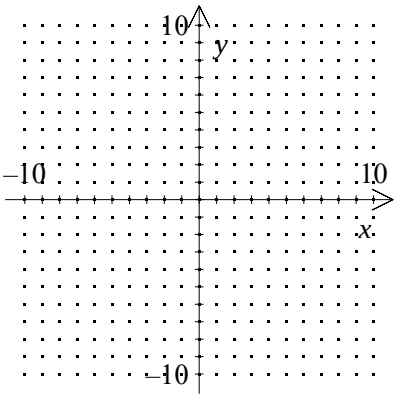
$y = \sqrt{x-1} - 3$




[6] _____

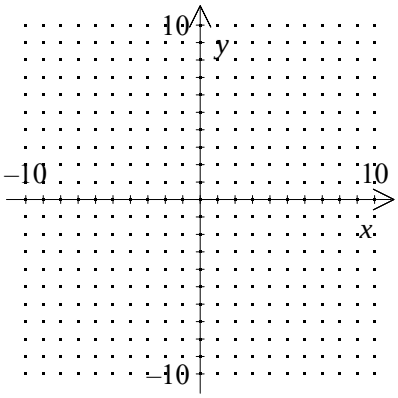
Graph:

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



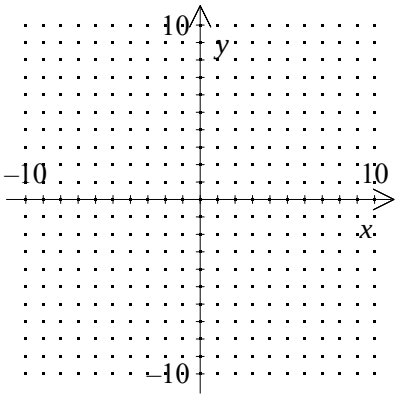

[7] _____

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



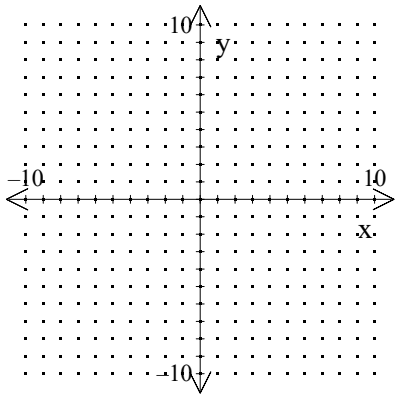

[8] _____

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




[9] _____

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




[10] _____

[1] C

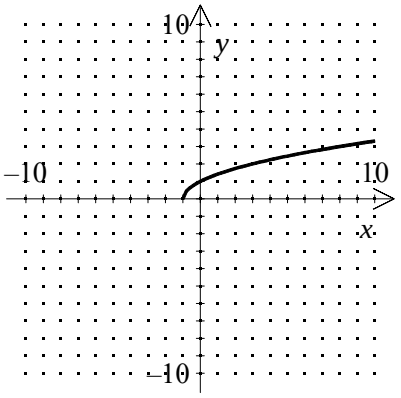
[2] D

[3] C

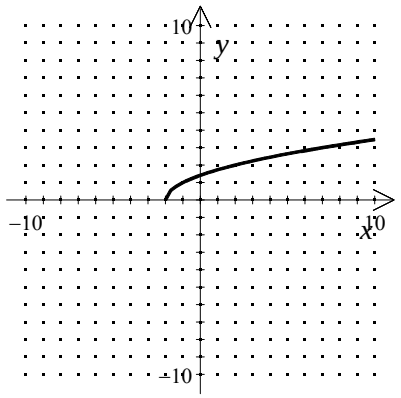
(a) domain: $\{x|x \geq -1\}$

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

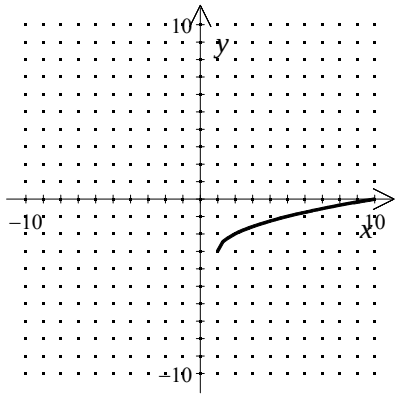
[4]



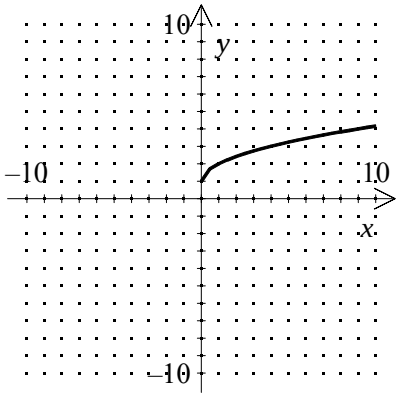

[5]



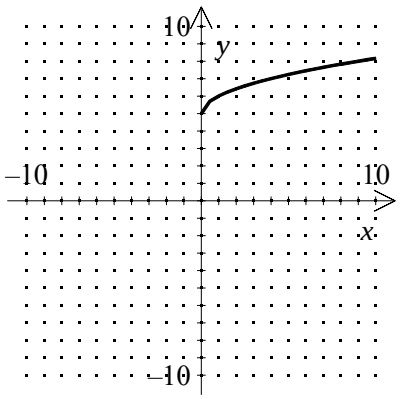

[6]



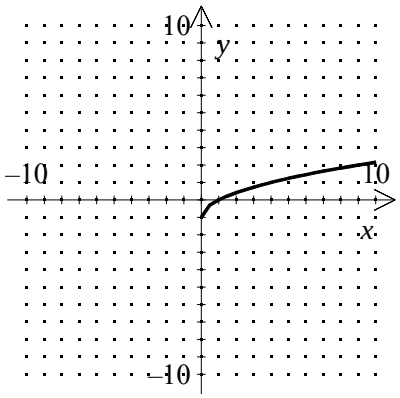

[7]




[8]




[9]




[10]