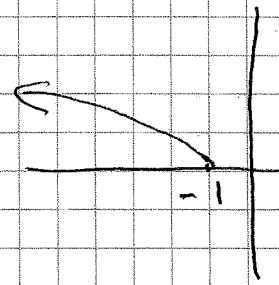


#11) Look at $y = \sqrt{-x+1}$ now. What is the shift?
 1 to the left since we added 1? Try it



Is this correct?

What is x when $y = 0$?

$$0 = \sqrt{-x+1}$$

$$0 = -x+1 \rightarrow x = 1$$

But our pic has $x = -1$.

So we went the wrong way. What happened?

Go back. Rather than $y = \sqrt{-x+1}$, look at it as

$$y = \sqrt{-(x-1)}$$

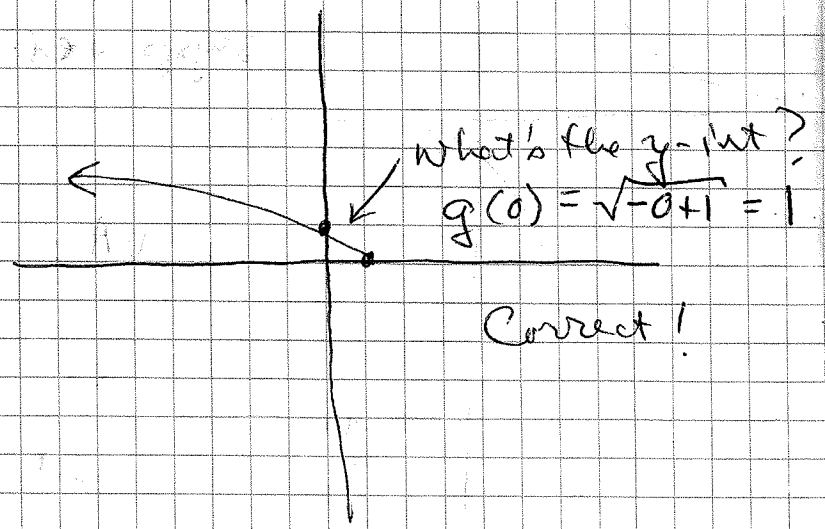
Now the mother function $y = \sqrt{-x}$ is clearly being shifted 1 right. (Check the root again)

$$y = \sqrt{-(x-1)}$$

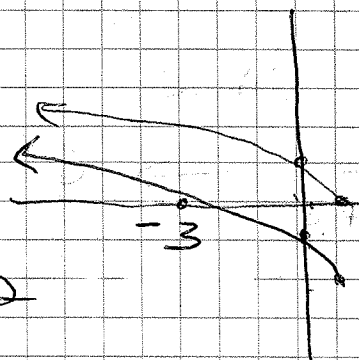
$$0 = \sqrt{-(x-1)}$$

$$0 = -(x-1)$$

$$x = 1$$



Finally, try #12) $g(x) = \sqrt{-x+1} - 2$



move this down 2
 + check intercepts
 before drawing

$$g(0) = -1$$

$$0 = \sqrt{-x+1} - 2$$

$$x = -3$$