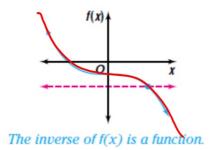
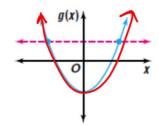
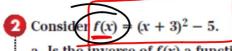


Inverse Relations Two relations are inverse relations if and only if one relation contains the element (b, a) whenever the other relation contains the element (a, b).





The inverse of 
$$g(x)$$
 is not a function.  
 $g(x)$  function  
 $g'(x)$  hot



c. Graph f(x) and  $f^{-1}(x)$  using a graphing calculator.

$$y_1 = (x+3)^2 - 5$$

$$y = (x+3)^{2} - 5$$

$$x = (y+3)^{2} - 5 - \frac{1}{3}(x+5)^{2} - 3$$

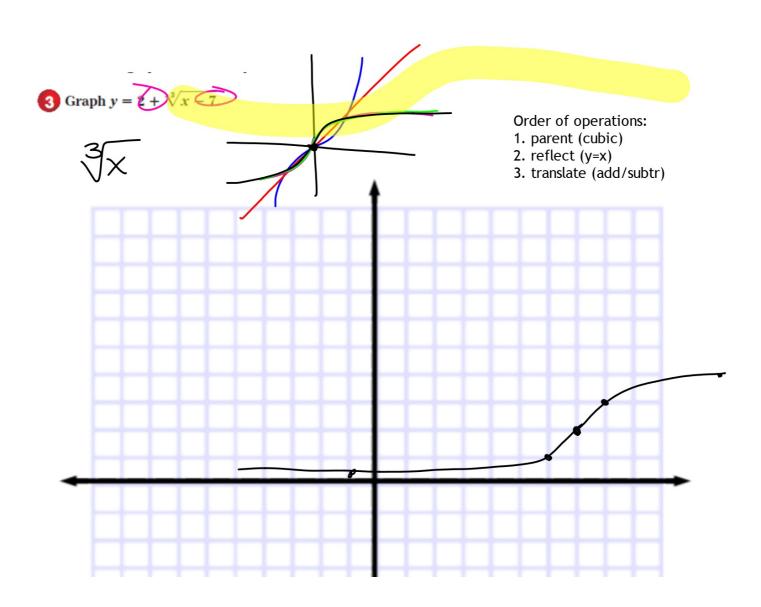
$$x = (y+3)^{2} - 5 - \frac{1}{3}(x+5)^{2} - 3$$

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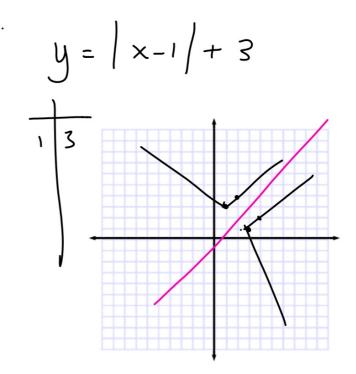


$$y = x^{2+2x+4}$$

$$y^{-4} = x^{2+2x+1}$$

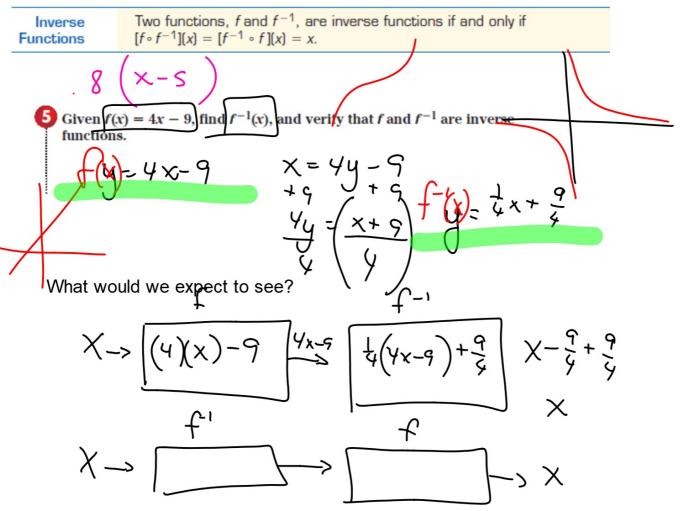
$$y^{-3} = (x+1)^{2} + 3$$

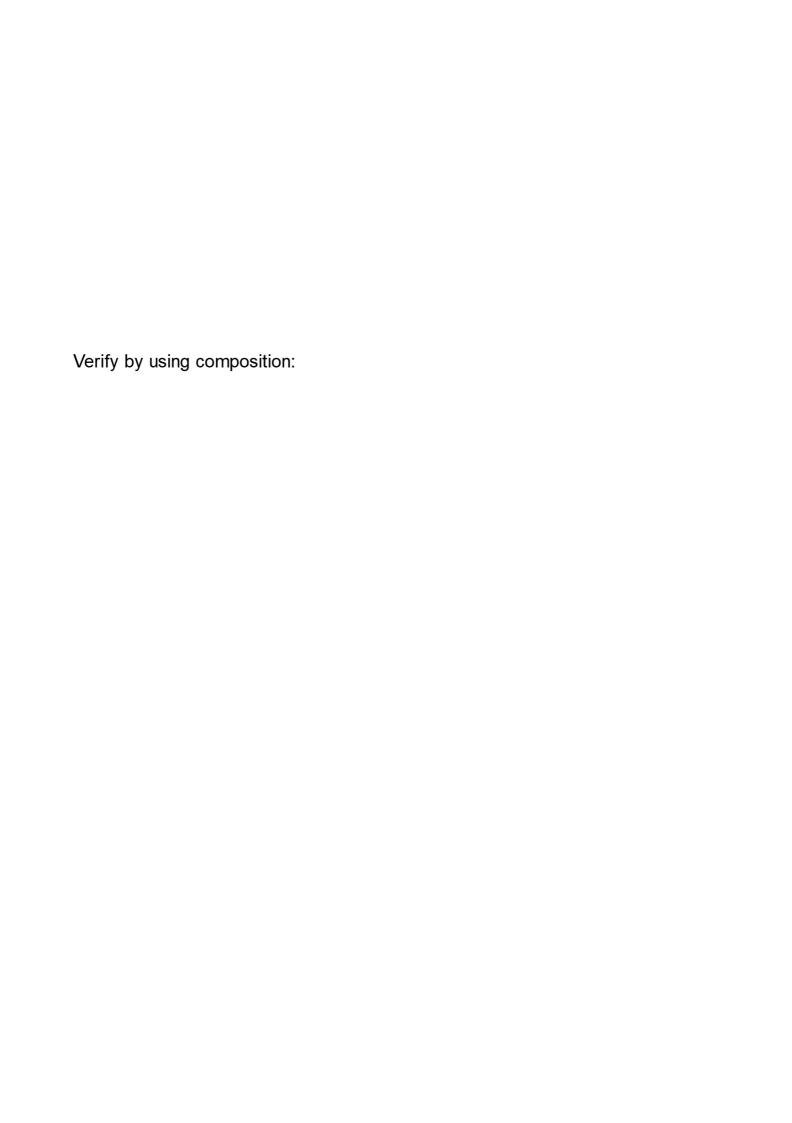
$$y^{-3} = (x+1)^{2} + 3$$



## Composition functions (from alg2)







15-47 39 obs