

Find the inverse algebraically

1. $f(x) = -2x + 1$

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

3. $f(x) = 4^x$

4. $y = \frac{2x+1}{3}$

5. $y = \log_3(x-1)$

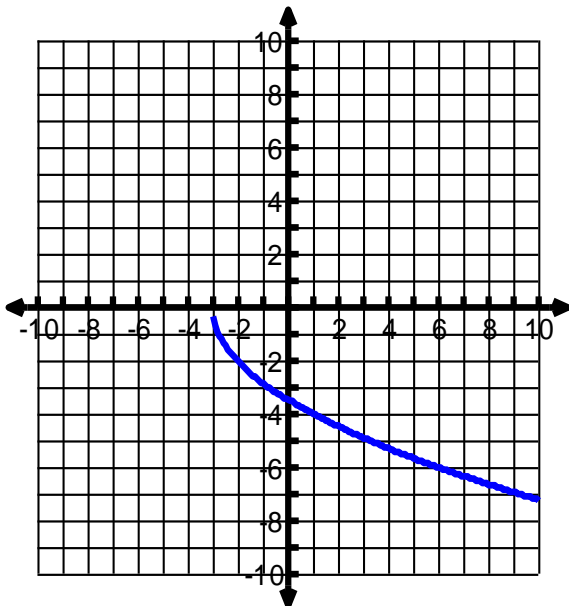
6. $y = 3^{x+2}$

7. $f(x) = \log_2(x+2)$

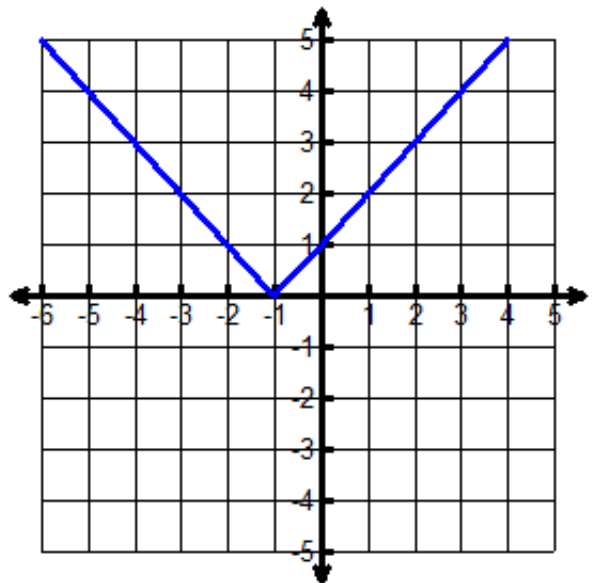
8. $y = \sqrt[3]{x+3}$

Find the inverse graphically

9.

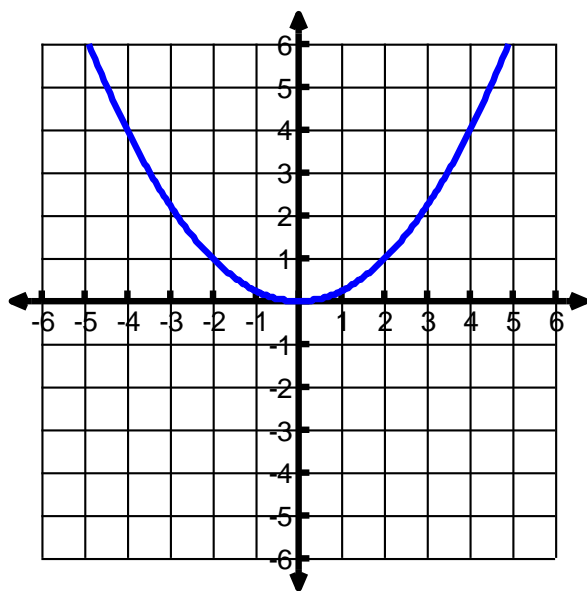


10.

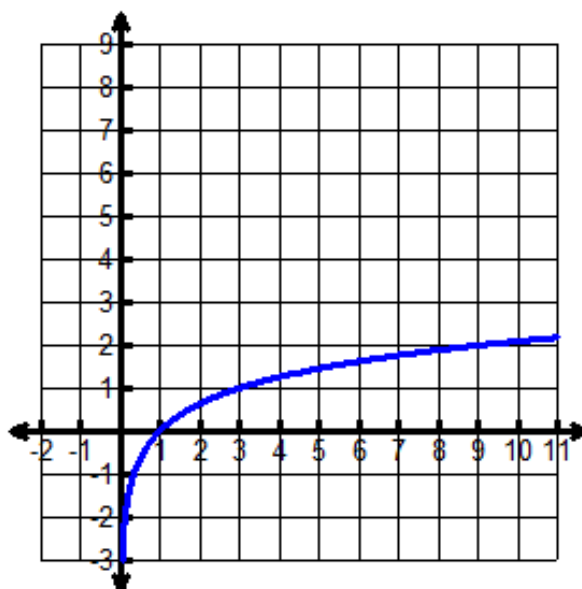


Find the inverse graphically

11.



12.



Using composite functions – verify that the two functions are inverses of each other (SHOW YOUR WORK)

13. $f(x) = 2x - 3$ & $g(x) = \frac{x+3}{2}$

14. $f(x) = 3^x$ & $g(x) = \log_3 x$

15. $f(x) = -3x$ & $g(x) = -\frac{3}{x}$

16. $f(x) = 5^{x+1}$ & $g(x) = \log_5(x+1)$