

Assignment 1.5

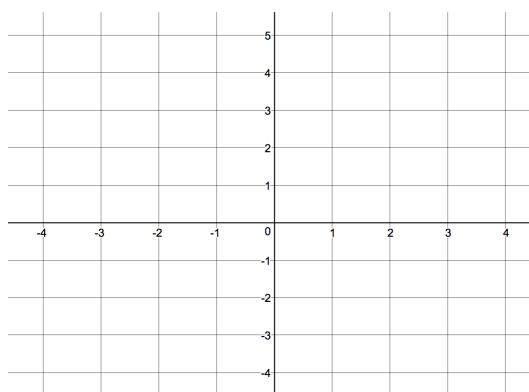
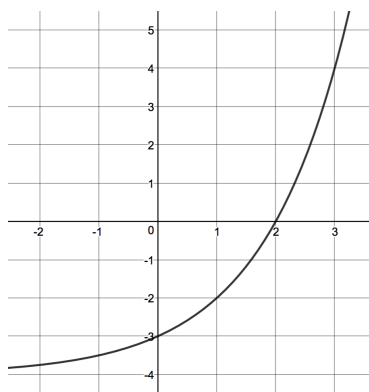
Give the inverse of each function in the same format that the original function is given.

1.

$f(x)$	
x	$f(x)$
-8	0
-4	3
0	6
4	9
8	12

$f^{-1}(x)$	

2.



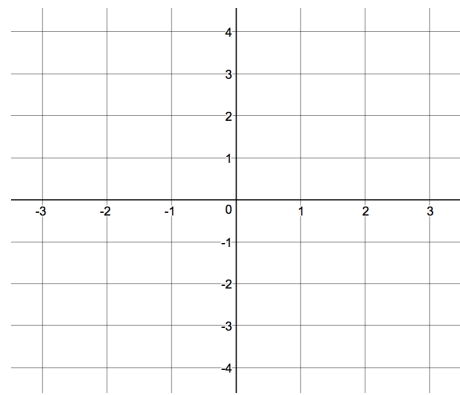
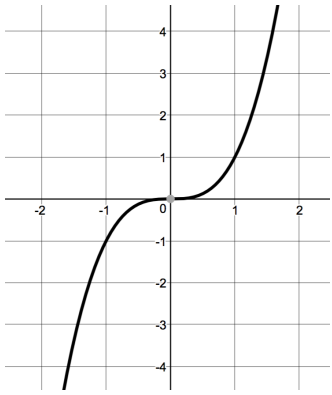
3. $f(x) = -2x + 4$

$f^{-1}(x) =$

4. $f(x) = \frac{1}{2}x^2$

$f^{-1}(x) =$

5.



Refresh Your Memory

For each given set of functions calculate $f(g(x))$ and $g(f(x))$.

6. $f(x) = 3x + 7$ $g(x) = -4x - 11$

7. $f(x) = -4x + 60$ $g(x) = -\frac{1}{4}x + 15$

8. $f(x) = 10x - 5$ $g(x) = \frac{2}{5}x + 3$

9. $f(x) = -\frac{2}{3}x + 4$ $g(x) = -\frac{3}{2}x + 6$

10. Two of the pairs of functions are inverses of each other. Which pairs are inverses and how do you know?