**2CP HW Practice Inverse Functions**

The given coordinates are on f(x), find the coordinates for f-1(x)

1. ( - 2 , 4 ) 2. ( 4 , 7 ) 3. ( 0 , 11 ) 4. ( - 3 , - 8 ) 5.( 10, 10 )

Find the algebraic inverse.

6.  7.  8. 

9.  10. $f\left(x\right)=\sqrt{x-4}$

Graph the inverse of the given function.

11. 12.

13. Graph f(x) = x2 + 1 and its inverse. Restrict the domain of f(x) so that f–1(x) is a function.

14. Graph f(x) = |x – 1| and its inverse. Restrict the domain of f(x) so that f–1(x) is a function.

15. Show that each of the following functions are inverses by showing that f(g(x)) = x and g(f(x))=x.

a) f(x) = x2 – 4;

 g(x) =

b) f(x) = ;

 g(x) = + 1

c) f(x) = 2x + 3;

 g(x) =