

Instructions, Newton iteration type  
HW.

specifically for 4.2, 4.9,  
of sec 4.9 of OpenStax

take the seed  $x_0$  to be  
 $x_0 = 1$

in all cases

Write the iteration scheme  
in the form

$$x_{n+1} = F(x_n)$$

making sure to find the  $F$   
explicitly,

a Describe the 1st four iterates  
 $x_1, x_2, x_3, x_4$

b How many iterates do you  
need to get 4 decimal place  
accuracy?