Assessment #4

Math 370 | Numerical Analysis

Assigned: Fri Feb 07 | **Due: Fri Feb 14**

Do the following homework questions found in the text book (*Numerical Analysis*, Burden & Faires (5th Edition), 1993). Odd-numbered problems have solutions in the back of the text.

1 page 77, #4

2 page 77, #5

3 page 77, #6

4 page 77, #7

5 page 81, #1(a),(c)

6 page 82, #7

7 page 82, #8

8 page 82, #9

9 Solve the equation $x - 2^{-x} = 0$ for the root in [0,1] to within 10^{-4} using Fixed Point Iteration and then using Newton's Method. THEN use Steffensen's Method with Fixed Point Iteration and compare the rate of convergence for the three methods.

Journal

Write down a paragraph on any subject related to the class that you want to. This week I would especially like to read your feedback on the speed of the course. Are we covering too little material or too much? also, let me know how often you read the text and whether you think it is helpful and whether you have tried reading other numerical analysis texts. As always you can comment on any other feature of the class that you like (or dislike).

Online Participation

Let's continue this topic of discussion for another week:
"Of all the methods you know of to solve the equation $f(x) = 0$, which is the it best, or in other words, which one would you use the most often if given the choice?"

Give reasons for your choice.

To participate, send electronic mail to `370@abacus.oxy.edu`

TEST 1 is RE-scheduled for February 21, 1997!