Homework Suggestions - Do's and Dont's

MAT 128A

Updated: October 21, 2019

e.g.:

X	f(x)
1.0000000000000000e-01	4.995834721974289e-01
1.000000000000000000000000000000000000	4.999958333473664e-01
1.000000000000000000000000000000000000	$4.999999583255033 \mathrm{e}\text{-}01$
1.000000000000000000000000000000000000	4.9999999969612645e- 01
1.000000000000000000000000000000000000	5.000000413701854e-01
1.000000000000000000e-06	5.000444502911705e- 01
1.000000000000000000e-07	4.996003610813205e- 01
1.000000000000000000000000000000000000	0
1.000000000000000000e-09	0
1.0000000000000000e-10	0

Provide tables with headers in your write-ups, **Don't:** Just copy-paste or screenshot from MATLAB, e.g.:

>> f(x)

ans =

Columns 1 through 3

4.995834721974289e-01

4.999958333473664e-01

Columns 4 through 6

4.999999969612645e-01

5.000000413701856e-01

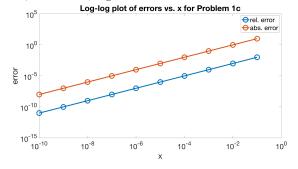
0

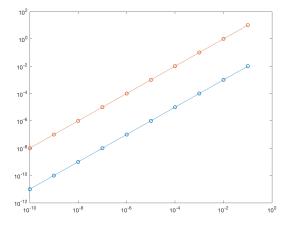
Columns 7 through 9

4.996003610813205e-01

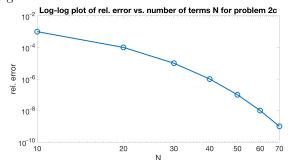
Column 10

Do: Label plots clearly with x-labels, y-labels, leg- **Don't:** Plot without any labels, e.g.: ends, and titles, e.g.:





Do: Adapt your discretization, number N of Taylor Don't: series terms, etc., to illustrate the rate of convergence, e.g.:



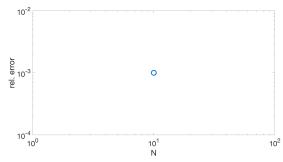
Do: Sample data sufficiently but not excessively for Don't: Oversample - report more output than would tables, plots, etc.

Answer questions with typed or hand-written **Don't:** mathematical analysis UNLESS the question asks you to provide computer output, tables, programs, or plots.

AND discuss the rates of convergence shown in your plots.

ask us lots of questions, we are happy to help!

Undersample and then have empty plots, shrug at convergence rate questions, etc., e.g.:



fit in a one-page table. Undersample - like the plot above.

Answer questions in code comments, use MATLAB to do symbolic math, etc..

Do: Answer all parts of the question - e.g., plot errors **Don't:** Forget to answer part of a long question.

Do: Start homework early! Come to office hours and Don't: Procrastinate or ask long open-ended questions by e-mail the day the assignment is due.