

1. Go into your folder in my P-drive and make a directory called HW6. Now go to the class web site and download RunSimpson.m. You will have to write a program called Simpson.m which will be a function file. You must use RunSimpson.m to call Simpson.m to evaluate

$$\int_0^{2\pi} e^{-x} \cos(2x) dx$$

Simpson.m must be a recursive program similar to that described by the pseudo-code found on page 241 in the text. In RunSimpson.m you must put in your name and a list of the changes you made to Simpson.m in order to improve its efficiency. If it runs successfully as described by the pseudo-code you will get 15/20 points. Improvements will get you to 20/20.

I will go into each directory, open RunSimpson.m and run it. If it doesn't work you get a zero on the homework.