Homework Assignment 10 Due on Friday 12/14

Programming Problems:

1. Write a Matlab code that performs composite trapezoidal rule to approximate $\int_a^b f(x) dx$. Your code should take f, a, b and n as input data, where n is the number of the subintervals, i.e. $h = \frac{b-a}{n}$. Save your code as function M-file and submit it to num_ana@math.nthu.edu.tw

Writing Problems:

Do the following exercise problems in the text book by Bradie, Sec 6.4: 1(a,d), 6*, 8*, 10*, 11*, 12*, 14*, 17* Sec 6.5: 2*, 4, 7, 9, 21*, 22* We only discuss * problems in discussion section.