## Homework Assignment 10 <br> Due on Friday 12/14

## Programming Problems:

1. Write a Matlab code that performs composite trapezoidal rule to approximate $\int_{a}^{b} f(x) d x$. 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: $1(\mathrm{a}, \mathrm{d}), 6^{*}, 8^{*}, 10^{*}, 11^{*}, 12^{*}, 14^{*}, 17^{*}$
Sec 6.5: $2^{*}, 4,7,9,21^{*}, 22^{*}$
We only discuss * problems in discussion section.

