

Lab_6 Call the function

Introduction

Straightforward as it seems, sometimes you will find that your Matlab main file codes are too long to be fitted in a single page. As a matter of fact, it might distract the one who reads your program from understanding your goal and your approach. Hence, there is a method called “calling function” in Matlab which allows you to keep your codes as simple and integrated as possible. What you need to do during this lab session is learn to create your own functions and call them in your mainfile.

Problem set

Plotting four equations: $A=\sin(x)$, $B=\cos(x)$, $C=\sin(2x)$, $D=\cos(2x)$

With title, legend, x-label, and y-label on. The format of your main file should look exactly like below:

```
%-----%  
%Variable input  
x=linspace(0,2*pi,1000);  
%Call equations  
Your own function #1  
%Call plot  
Your own function #2
```

Remember, you have to define two functions on your own, the first one for equations and the second one for plotting.

Submission

Publish your results into PDF and submit it to the Smartsite along with two functions you defined. Below is a list for you to double check when you submit in the end.

- Published PDF
- Function #1
- Function #2