MATH333: Tutorial 6 (17-3-00)

1 LaTeX

A software that can be used to produce a paper in a nice way. It is different from, say, MS Word in which $\LaTeX$ is somewhat like a program that you have to write a code for it to read.

Here is a sample code you can download:

$$http://home.ust.hk/\sim matim/public\_html/tutorial6/$$

The $\LaTeX$ file is having a suffix ".tex". The files with ".eps" are the same as the ".ps" file you obtained by using the command *print* in MATLAB.

To execute the "program", we use

$$>> latex\ report.tex$$

Then, you will see a lot of things coming out. It indicates whether there is an error in your code. If there is so, you can use Ctrl-C to break the program and then open the file to correct it.

If there is no problem, you can use

$$>> xdvi\ report.dvi$$

to see your product.

To change the ".dvi" file to a postcripe file, we can use

$$>> dvips\ -o\ report.ps\ report.dvi$$

2 Exercise

1. Collect all those materials you obtained in previous exercises to write a report, clearly explaining what a chaotic pendulum is all about with at most 4 pages.

   Your report should at least include the spectrum, the Poincare section of the pendulum, it's motion in the phase space and in the real space.

   Grade will depends on the tidiness of your $\LaTeX$ document and how clear your explainations are.

   Please don't send the file to me this time. Please print the report out and what I need this time is the hard capy only. Thank you.