

# MM553/837 - Computational Physics

## Tutorial Exercise - Week 37

Read Sec. 2.1 in Anagnostopolous. Consider the particle moving on a circle, which is the first example given there.

- Implement Circle.cpp on your own, using a C++ class to handle the position and velocity of the particle.
- For a particular choice of initial parameters, run the program and make plots similar to Fig. 2.4.
- Now consider the motion of multiple particles on the same circle. Assume that they do not interact in any way and are allowed to pass through each other. For particular choices of initial parameters, try to plot the position or angle of all particles on the same graph.
- Complete problems 2.1 and 2.2 in Sec. 2.5.