# Computing for Mathematics: individual coursework

## Instructions

Write a 3 page report on a mathematical topic. Your report is to be written in LaTeX and must use aspects of programming (Python and/or Sage) to illustrate the particular topic.

*You are encouraged to choose a topic*, if you do so I recommend checking with me (Vince Knight) that the topic is appropriate. If you are unable to choose a topic select one from the following:

* Convergence of sequences,
* Complex numbers,
* Solving differential equations,
* Random events in probability.

## Marking scheme

The following marking scheme will be applied:

* **Code** (50% weighting)
  + 50%: Appropriate code used with concepts learn in lab sheets.
  + 70%: Code from lab sheets used to demonstrate concepts clearly.
  + 90%: Code used is a combination of code learnt in class and individually researched. Used to explain concepts in a clear and original way.
* **Content** (30% weighting)
  + 50%: The content is correct and basic aspects of the topic are explained.
  + 70%: The content is correct and some research has been undertaken to show interesting aspects of the topic.
  + 90%: The topic chosen is very original and a great understanding is shown.
* **Presentation** (20% weighting)
  + 50%: The work is well written with no or little graphical content and also contains grammatical and spelling mistakes.
  + 70%: The work is well written with some graphs and images and minor grammatical and spelling mistakes.
  + 90%: The work is clear, well written with excellent quality graphs and images with no grammatical and spelling mistakes.

## Example

A model solution is available here.

How the model solution would have been marked is here.