MATH 680 - ASSIGNMENT 2

To be handed in not later than 5pm, Wednesday 10th November 2010.
Projects handed in late will be subject to penalization of up to 100% marks
Please hand in during lectures, to Burnside 1225, or to the Mathematics Office Burnside 1005

Write a discussion of **one** of the following topics, including basic definitions, mathematical background, computational details, and at least one real example. Include in your discussion citations of relevant references.

(1) The relationship between the bootstrap and the jackknife.

(2) The quantification and assessment of prediction errors in a bootstrap setting, with a view to smoothing parameter or model selection.

(3) The use of permutation and randomization procedures in hypothesis testing beyond the two-sample setting.

This project must be your work alone.

Presentation details:

- Limit your solution to a **maximum** of 6 pages including title page, tables and figures.
- Your project **must be typewritten** in Latex or Word. Format must be
  - 11pt font or greater
  - Pages $8\frac{1}{2}$" x 11" (216mm x 279mm) (Letter size)
  - Margins at a minimum of $\frac{3}{4}$" (18.7 mm)
  - No narrower than single-spaced, with no more than six lines of type per inch.

  A Latex template meeting these requirements is available on request.
- Marks will be deducted for poor presentation.