## Outlying and Influential Data - Seminar 4

## Dr. Donald Davendra MATH 567 - Winter 2016

February 23, 2016

## 1 Task

Influences on the regression coefficients combines leverage and discrepancy. Two of the measures are the Cook's distance and leverage (hat value)

This seminar will require you to do the following:

- 1. Mathematically describe the *Cook's distance* resampling method.
- 2. Describe the *hat value* in respect to the following properties (*mathematical descricption*):
  - (a) average hat value,
  - (b) simple regression,
  - (c) multiple regression,

## 2 Submission

Write a one page report on the two measures. Submission is on Tuesday, 1 March during lectures.