## MTH 210: Lab 3

- **P 1.** Use the Acceptance–Rejection method to generate samples from Binomial(n, p) setting Geometric as the proposal distribution.
  - (1) For (n, p) = (10, 0.3) use Geometric(p) as the proposal.
  - (2) Estimate the value of c.
  - (3) For (n,p) = (100,0.3) use Geometric $(p^*)$  as the proposal with appropriate choice of  $p^*$ .
  - (4) Estimate the value of c and compare it with the value of c when the proposal is set as Geometric(p).