MTH 210: Lab 4

- ${\bf P}$ 1. Use the Acceptance–Rejection method to generate samples from ${\rm Gamma}(4,5)$ using an appropriate proposal distribution.
 - (1) Calculate the sample mean and variance and compare it with population mean and variance.
 - (2) Estimate the value of c and compare it with theoretical value.
- \mathbf{P} 2. Generate 10^4 uniform samples from a unite circle. Observe the scatter plot of the samples.