## Homework set #4

- 1. From the book 6.2, 6.3, 8.3, 9.1
- 2. Compare by simulation the coverage and mean length of the 95% asymptotic CI for p based on a) direct CLT with asymptotic variance estimated by the plug-in method b) the variance stabilizing transformation c) Bayes credible interval for prior Beta(1/2,1/2). To make the comparison use n=10, 50 and p=0.01,0.02, ..., 0.99. Summarize your results in a graph.