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 $p=0.01,0.02, \ldots , 0.99$. Summarize your results in a graph.