MATH 358/658 Assignment 5
Due March 3.

- Page 393 #4, #5, #6, #7
- Page 406 #3, #5
- Page 406 #12 Make plots of both the prior and the posterior distribution using `R`. Check out the file "R Script to Show Posteriors.R" under Resources on Sakai.
- Page 406 #14
- Page 406 #15
- Page 407 #18
  When you are faced with an ugly looking integral, usually the simplest way forward is to recognize that $\xi(\theta \mid X) \propto f(X \mid \theta)\xi(\theta)$ has to be a valid density function of θ, meaning it must integrate to 1 over Ω. Usually you can recognize what family of distributions the posterior comes from, and then use your knowledge of that family to figure out what the constant should be.