

Assignment 6 (5 pts):

Within each problem, the subproblems are worth equally.

1. **Problem 11.2** from textbook pages 246-247 (**2 pts**).
2. **Problem 6.3 (d)** from textbook pages 237-238 (**2 pts**). Let the joint prior distribution of β and c be the bivariate normal distribution:

$$N_2 \left(\begin{pmatrix} 0 \\ 0 \end{pmatrix}, \begin{pmatrix} 16 & 0 \\ 0 & 16 \end{pmatrix} \right).$$

3. All the R code for this assignment. (**1 pt**)