STAT675 – Homework 1b Due: Sept. 17

- 1. Looking at included code polynomial.R, examine the bias/variance trade off for varying number of data points n.
- 2. Use the included design matrix X and response Y (in homework1_X.Rdata and homework1_Y.Rdata, respectively) to do the following:
 - (a) Predict the response associated with homework1_Xtest.Rdata. Try to make your prediction error as low as you can

prediction error =
$$||\mathbb{X}_{test}\hat{\beta} - Y_{test}||_2^2$$

(b) Report which of the original covariates seem to be the most important.