DS-630 Week 3 Assignment

1. Please complete the below problems.
   1. Why would you want to use:
      1. Ridge Regression instead of plain Linear Regression (i.e., without any regularization)?
      2. Lasso instead of Ridge Regression?
      3. Elastic Net instead of Lasso?
   2. Suppose you are using Polynomial Regression. You plot the learning curves and you notice that there is a large gap between the training error and the validation error. What is happening? What are three ways to solve this?
2. Why would you want to use
   1. Ridge Regression instead of plain Linear Regression(i.e without any regularization)?

* 1. Lasso instead of Ridge Regression?
  2. Elastic Net instead of Lasso?