1. Using the plastic hardness data of Homework 1, run PROC REG in SAS and answer the following questions:

   (a) Is there a significant linear relationship between Brinell hardness and elapsed time in hours? Conduct a t-test for $H_0: \beta_1 = 0$. What is the p-value of your test?

   (b) On the average, Brinell hardness increases by ________ for every additional hour. The standard error of this estimate is ________.

   (c) Create a scatterplot of your data with an overlayed regression line.