**Class 14 Worksheet**

**Step 1**

**Regression equation:**

Average SAT Score = XX + XX\*(Household Income)

**Interpretation of slope:**

**Comments on plots:**

**Step 2**

**Regression equation for transformed data:**

Average SAT Score10 = XX + XX\*(Household Income)

**Interpretation of the slope:**

**Residual Plot**

**Normal Probability Plot**

**Comments on plots:**

**Step 3**

1. Compute and interpret a confidence interval for the mean SAT score for a student from a household making $62,000 per year.
2. Compute and interpret a prediction interval for the SAT score of a student from a household making $120,000 per year.