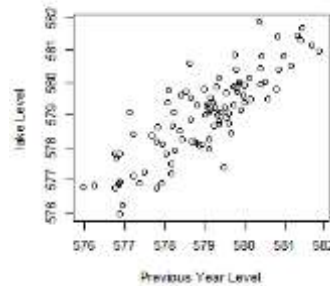
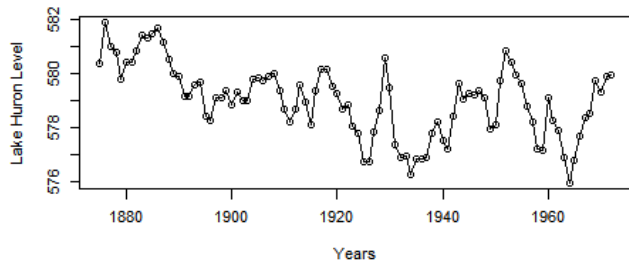


Full Name: _____ ID# _____ Ser# _____

Q1. Using the following plots of Lake Huron Levels from 1876 to 1972, describe any noticeable patterns.



Q2. Suppose $Y_t = 5 + 2.6t + X_t$ where $\{X_t\}$ is a white noise process with $\sigma_e^2 = 1$.

- Compute the **autocovariance** function for this model
- Is $\{Y_t\}$ **stationary**? Why or why not?