

Homework Solutions

Applied Regression Analysis

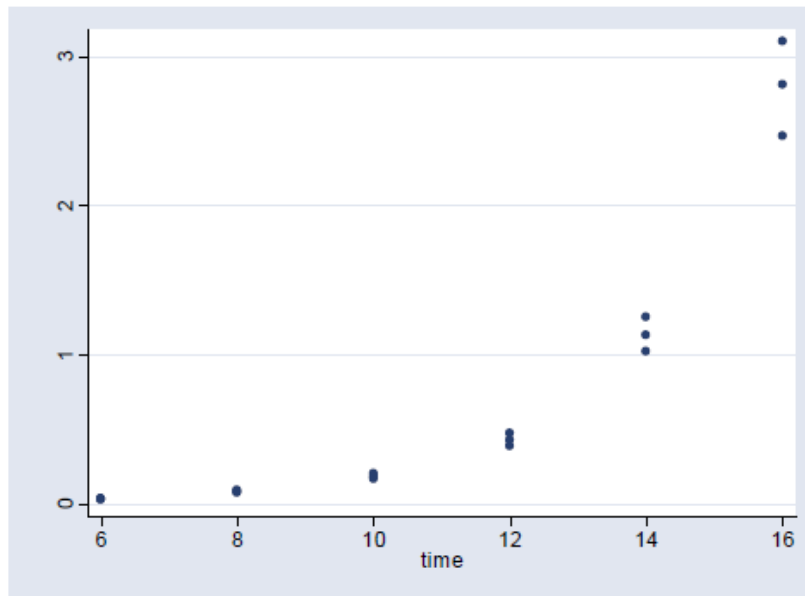
WEEK 4

Exercise One: Generate separate graphs of:

1. Concentration (Y) vs. Time (X)

For this question, we are looking for a scatterplot of Concentration vs Time. Type “scatter concen time” into the command window. From this command, you should see the graph shown below:

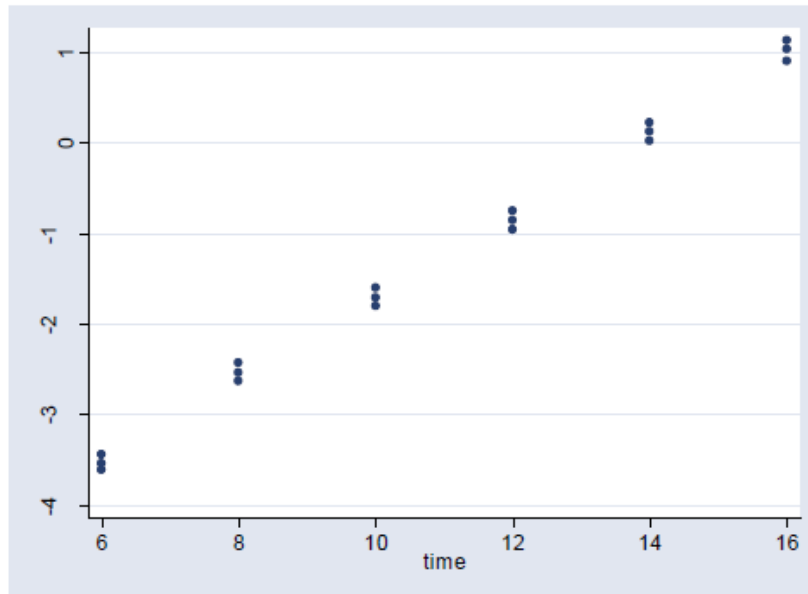
```
. scatter concen time
```



2. Natural Logarithm of Concentration (lnY) vs. Time (X)

To generate a scatterplot of the log transformation of Concentration vs Time, type “scatter lnconc time” into the command window. From this command, you should see the graph shown below:

```
. scatter lnconc time
```



As you can see from the graphs above, the log transformation of concentration appears to “linearize” the model.