Lab 3

Question 1

A study involved three groups of depressed women, and there were three treatment options. Each women was then given Beck's test for depression. The data are as follows:

Group 1	**15, 29, 14, 28, 26, 16, 22, 34, 19, 9, 20, 9**
Group 2	**28, 35, 26, 18, 18, 23, 24, 29, 23, 5, 18, 17**
Group 3	**6, 3, 7, 5, 11, 4, 5, 7, 6, 1, 2, 6**

1) Based upon the ANOVA table are these groups significantly different?
2) Find an estimate for the mean of group 1 and 2, with a 95% confidence interval. HINT: you need to put intercept in the estimate statement too.
3) Find an estimate of the mean of group 1 and 2 minus the mean of group 3.
4) Find the simultaneous confidence intervals using TUKEY and Bonferonni.
5) The data may not have constant variance. Take the log of the data and do 1-4, do the results change?