

PLSc 724 - HOMEWORK # 5

1. Given the following data set:

| Replicate | Treatment |    |    |    |    |    |
|-----------|-----------|----|----|----|----|----|
|           | 1         | 2  | 3  | 4  | 5  | 6  |
| 1         | 43        | 52 | 37 | 26 | 77 | 83 |
| 2         | 52        | 67 | 42 | 17 | 92 | 56 |
| 3         | 34        | 41 | 21 | 9  | 77 | 67 |

- a. Compete the analysis of variance.
- b. Calculate the coefficient of variation.
- c. Calculate the LSD (0.05). If the F-test for treatments is significant at the 95% level of confidence, show what means are different using lower case letters.
- d. Delete  $Y_{32}$  and obtain an estimate for the missing observation.
- e. Do parts a through c using the estimate for the missing observation,  $Y_{32}$ .