

TI-83 Lab 2 For Statistics 514

Topics:

Part V. Analysis of Variance: I

Chapter 18. ANOVA Diagnostics and Remedial Measures

normal probability plot ANOVA (QQPLTANV),

$e \vee p$ Plot For ANOVA (EVPLOT),

Dataset(s): “mice.dat”, a dataset on effect of air temperature on the rate of oxygen consumption ROC of 16 deer mice,

temp \rightarrow	0°C	10°C	20°	30°
	10.3	9.7	3.6	7.8
	14.0	11.2	5.3	10.0
	12.6	10.5	4.6	6.3
	11.4	7.9	5.3	7.6

Dataset(s): “cotton.dat” The tensile strength of fibers with varying amounts of cotton content is investigated.

5% cotton	7	7	15	11	9	10
10% cotton	12	17	12	18	18	16
15% cotton	14	18	18	19	19	17
20% cotton	19	25	22	19	23	24
25% cotton	7	10	11	15	11	14

QQPLTANV, EVPLOT: Q–Q Plot, $e \vee p$ Plot For ANOVA. Given the “cotton.dat”, calculate two plots (Q–Q Plot and $e \vee p$ Plot) to check the assumptions necessary for the ANOVA .

- Type the five sets of data into L_1, \dots, L_5 .
- Type PRGM QQPLTANV ENTER 5 ENTER to display a q–q plot for the ANOVA.
- Type PRGM EVPLOT ENTER 5 ENTER to display a $e \vee p$ plot for the ANOVA.