**DATA** CURVA;

INPUT

TRAT$ DOSE RESP;

DOSEA = DOSE;IF TRAT= 'B' THEN DOSEA=**0**;

DOSEB = DOSE;IF TRAT= 'A' THEN DOSEB=**0**;

CARDS;

A 5 8

A 5 12

A 5 11

A 5 9

A 10 15

A 10 17

A 10 15

A 10 13

A 13 20

A 13 17

A 13 19

A 13 17

B 5 19

B 5 21

B 5 20

B 5 18

B 10 27

B 10 26

B 10 25

B 10 24

B 13 22

B 13 23

B 13 26

B 13 24

;

**PROC** **PRINT**;**RUN**;

**PROC** **GLM** ;

CLASS TRAT DOSE;

MODEL RESP=TRAT DOSE TRAT\*DOSE;

MEANS TRAT\*DOSE;

LSMEANS TRAT\*DOSE/T LINES;

**RUN**;

**PROC** **GLM** ;

CLASS TRAT;

MODEL RESP=TRAT DOSEA(TRAT) DOSEA\*DOSEA(TRAT) DOSEB(TRAT) DOSEB\*DOSEB(TRAT)/SS1;

**RUN**;

Obs TRAT DOSE RESP DOSEA DOSEB

1 A 5 8 5 0

2 A 5 12 5 0

3 A 5 11 5 0

4 A 5 9 5 0

5 A 10 15 10 0

6 A 10 17 10 0

7 A 10 15 10 0

8 A 10 13 10 0

9 A 13 20 13 0

10 A 13 17 13 0

11 A 13 19 13 0

12 A 13 17 13 0

13 B 5 19 0 5

14 B 5 21 0 5

15 B 5 20 0 5

16 B 5 18 0 5

17 B 10 27 0 10

18 B 10 26 0 10

19 B 10 25 0 10

20 B 10 24 0 10

21 B 13 22 0 13

22 B 13 23 0 13

23 B 13 26 0 13

24 B 13 24 0 13

Sum of

Source DF Squares Mean Square F Value Pr > F

Model 5 647.8333333 129.5666667 53.61 <.0001

Error 18 43.5000000 2.4166667

Corrected Total 23 691.3333333

R-Square Coeff Var Root MSE RESP Mean

0.937078 8.328017 1.554563 18.66667

Source DF Type I SS Mean Square F Value Pr > F

TRAT 1 433.5000000 433.5000000 179.38 <.0001

DOSE 2 186.3333333 93.1666667 38.55 <.0001

TRAT\*DOSE 2 28.0000000 14.0000000 5.79 0.0114

Level of Level of -------------RESP------------

TRAT DOSE N Mean Std Dev

A 5 4 10.0000000 1.82574186

A 10 4 15.0000000 1.63299316

A 13 4 18.2500000 1.50000000

B 5 4 19.5000000 1.29099445

B 10 4 25.5000000 1.29099445

B 13 4 23.7500000 1.70782513

T Comparison Lines for Least Squares Means of TRAT\*DOSE

LS-means with the same letter are not significantly different.

RESP LSMEAN

LSMEAN TRAT DOSE Number

A 25.50 B 10 5

A

A 23.75 B 13 6

B 19.50 B 5 4

B

B 18.25 A 13 3

C 15.00 A 10 2

D 10.00 A 5 1

Source DF Type I SS Mean Square F Value Pr > F

TRAT 1 433.5000000 433.5000000 179.38 <.0001

DOSEA(TRAT)=LINEAR A 1 138.1028912 138.1028912 57.15 <.0001

DOSEA\*DOSEA(TRAT)=QUADR.A 1 0.0637755 0.0637755 0.03 0.8728

DOSEB(TRAT) )=LINEAR B 1 46.9600340 46.9600340 19.43 0.0003

DOSEB\*DOSEB(TRAT)=QUADR.A 1 29.2066327 29.2066327 12.09 0.0027