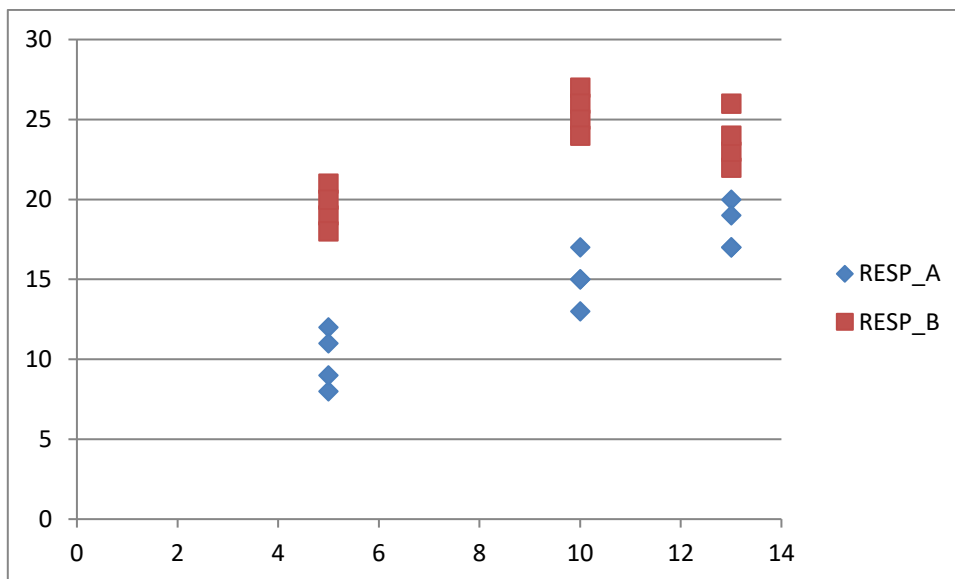


```

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

Source	DF	Sum of 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 TRAT	Level of DOSE	N	-----RESP----- 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	TRAT	DOSE	LSMEAN 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