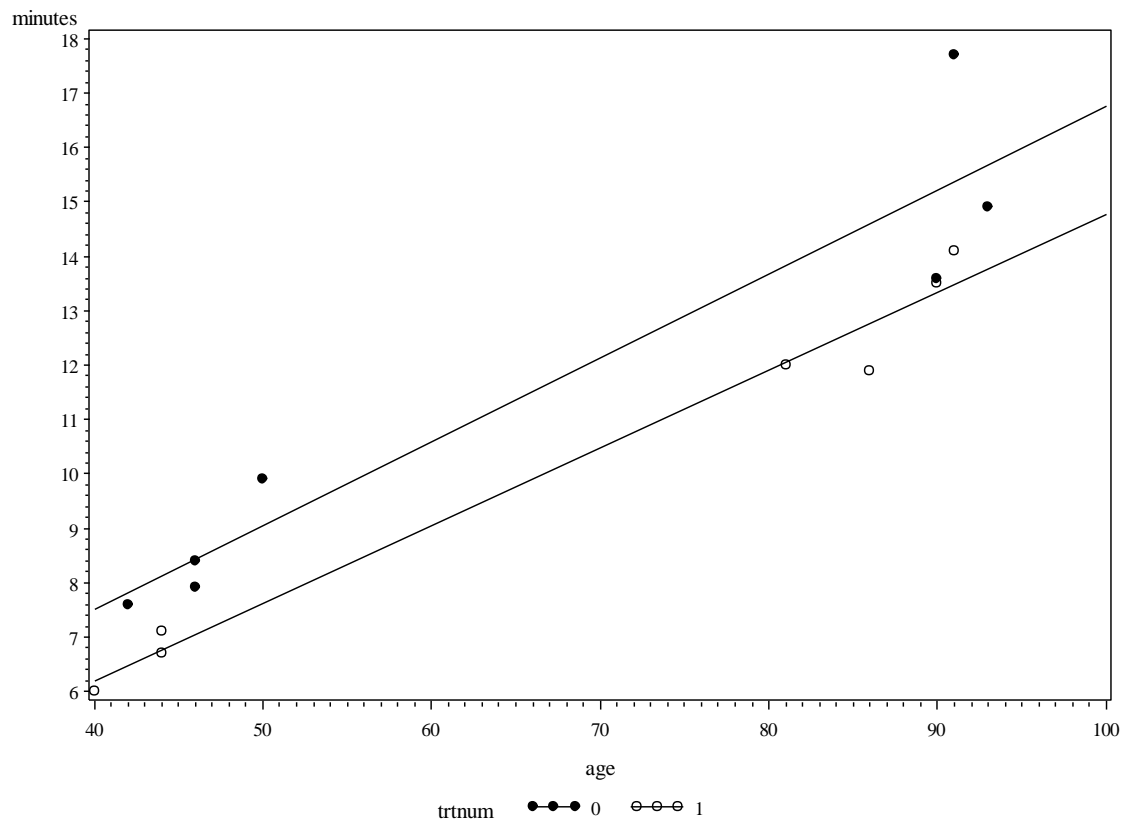


```
ods html close;
ods html;
ods rtf file='c:\courses\courses\ma416\qual_int2.rtf';
options nocenter;
data new;
    input subject trt $ center minutes age;
    if trt='N' then trtnum=1; else if trt='P' then trtnum=0;
    trtnumage=trtnum*age;
cards;
1  N 1  6.7 44
2  N 1  7.1 44
4  N 1  6.0 40
5  N 2 11.9 86
6  N 2 14.1 91
7  N 2 12.0 81
8  N 2 13.5 90
17 P 1  7.6 42
18 P 1  9.9 50
19 P 1  7.9 46
20 P 1  8.4 46
21 P 2 17.7 91
22 P 2 13.6 90
24 P 2 14.9 93
run;
proc means;
    class trtnum;
    var age;
run;
symbol1 c=black v=dot i=rl;
symbol2 c=black v=circle i=rl;
proc gplot data=new;
    plot minutes*age=trtnum;
run;
proc reg data=new;
    model minutes=trtnum;
    model minutes=trtnum age trtnumage;
    model minutes=trtnum age;
run;
ods rtf close;
```

Analysis Variable : age						
trtnum	N Obs	N	Mean	Std Dev	Minimum	Maximum
0	7	7	65.4285714	24.3574571	42.0000000	93.0000000
1	7	7	68.0000000	23.9513396	40.0000000	91.0000000



Number of Observations Read	14
Number of Observations Used	14

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	5.40643	5.40643	0.39	0.5441
Error	12	166.44286	13.87024		
Corrected Total	13	171.84929			

Root MSE	3.72428	R-Square	0.0315
Dependent Mean	10.80714	Adj R-Sq	-0.0493
Coeff Var	34.46125		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	11.42857	1.40764	8.12	<.0001
trtnum	1	-1.24286	1.99071	-0.62	0.5441

Number of Observations Read	14
Number of Observations Used	14

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	160.83282	53.61094	48.66	<.0001
Error	10	11.01646	1.10165		
Corrected Total	13	171.84929			

Root MSE	1.04959	R-Square	0.9359
Dependent Mean	10.80714	Adj R-Sq	0.9167
Coeff Var	9.71203		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	1.31731	1.21746	1.08	0.3046
trtnum	1	-0.85746	1.76622	-0.49	0.6378
age	1	0.15454	0.01759	8.78	<.0001
trtnumage	1	-0.01151	0.02509	-0.46	0.6562

Number of Observations Read	14
Number of Observations Used	14

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	160.60093	80.30046	78.53	<.0001
Error	11	11.24836	1.02258		
Corrected Total	13	171.84929			

Root MSE	1.01123	R-Square	0.9345
Dependent Mean	10.80714	Adj R-Sq	0.9226
Coeff Var	9.35702		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	1.68757	0.87823	1.92	0.0809
trtnum	1	-1.62569	0.54142	-3.00	0.0120
age	1	0.14888	0.01208	12.32	<.0001