

```
/* Q3 1.a */  
data d;  
input i x1 x2 y;  
x2sq = x2*x2;  
cards;  
1 1.43 2.79 1.23  
2 7.90 5.59 6.12  
3 -3.40 3.58 -1.90  
4 52.87 9.73 44.61  
5 54.39 9.32 41.28  
6 4.70 0.13 10.56  
7 39.68 8.91 34.78  
8 21.75 7.03 16.57  
9 12.62 6.46 10.09  
10 -1.85 2.97 2.01  
;  
proc reg data = d;  
model y = x1 x2 x2sq /alpha=0.01 xpx i;  
run;  
/* The least squares point estimators are B0= 9.9108, B1= 0.3065, B2= -5.2402 and B3= 0.7368 */
```