

```
/*Q2_7*/
data d;
input x y;
cards;
2.29 -16.55
2.79 -19.62
2.42 -17.25
1.74 -12.80
1.35 -8.00
2.87 -19.75
1.03 -6.83
1.79 -12.02
1.68 -11.91
2.74 -19.93
0.09 -1.33
1.70 -20.00
4.00 -28.00
4.30 -15.00
;
proc reg data = d;
model y = x / r influence;
run;
/* Criterion:  $CVR_i > 1 + (3k/n) = 1 + (3 \cdot 2/14) = 1.4286$  - good
 $CVR_i < 1 - (3k/n) = 0.57143$  - bad. (0.09, -1.33) would substantially improve
the precision of at least some of the least squares estimators. However,
the point (4.30, -15.00) would significantly damage the precision of the
least square estimates since  $CVR_{15} = 0.1561 < 0.57143$ . */
```