

RS Chapter 7 notes

Nooreen Dabbish

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1 7.2 The Model (multiple regression)

1.1 Example 7.2: Change in regression parameters with deletion of an x from the model

1.1.1 Example 7.2 Data

Obeservation Number	y	x ₁	x ₂
1	2	0	2
2	3	2	6
3	2	2	7
4	7	2	5
5	6	4	9
6	8	4	8
7	10	4	7
8	7	6	10
9	8	6	11
10	12	6	9
11	11	8	15
12	14	8	13

1.1.2 Plotting in R

```
plot(mydata[,2:4])
```

1.1.3 Example 7.3.1a

$\mathbf{y} = () 2327681078121114$, $\mathbf{X} = () 1.000.002.001.002.006.001.002.007.001.002.005.001.004.009.001.004.$