

Homework for Module 9

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11.1.3

Table 1: Analysis of variance table

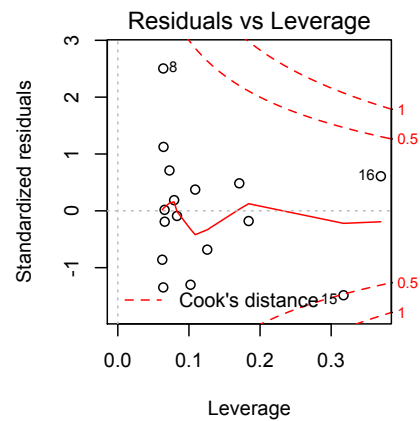
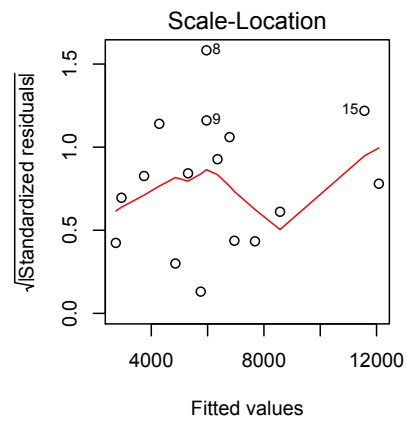
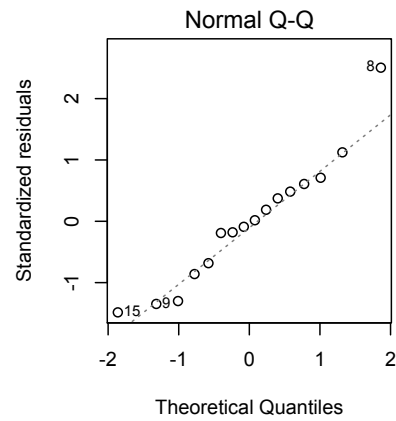
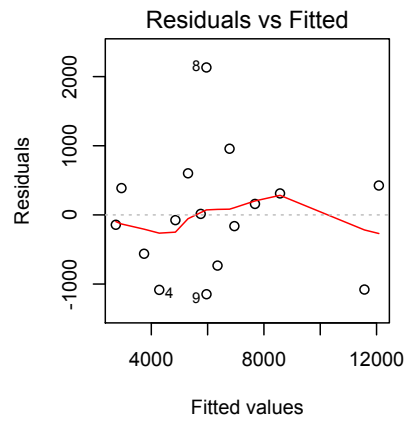
Source	Degrees of Freedom	Sum of Squares	Mean Squares	<i>F</i> -statistic	<i>p</i> -value
Treatments	7	126.95	18.14	5.01	0.002
Error	22	79.64	3.62		
Total	29	206.59			

12.1.1

- a) 21.2
- b) 5.1
- c) 0.59
- d) 0.4
- e) 0.35

12.2.4

- a)



- b)
- c) \$7756.321K
- d) \$879.9K
- e) \$17789.711K

12.3.3

- a) 8.532×10^{-2}
- b) (0.82, 1.19)
- c) $t\text{-value} = 11.76$ and the $p\text{-value} = 1.212 \times 10^{-8}$

12.4.4 fit: 7254.651, lower: 6754.55, upper: 7754.752

12.5.3 (5302, 9207)

12.6.5

Table 2: Analysis of variance table

Source	Degrees of Freedom	Sum of Squares	Mean Squares	<i>F</i> -statistic	<i>p</i> -value
Regression	1	10.71×10^7	10.71×10^7	138.29	0.0
Error	14	1×10^7	774,211		
Total	15	11.79×10^7			

12.7.1 No.

12.11.14 Yes.