

Use the data below to calculate the requested regression results by hand

y	x1	x2	x3
107.0	1	1	1
75.8	9	3	-1
66.6	9	3	-3
70.4	1	-1	-3
59.5	9	-3	3
105.0	1	-1	3
94.6	1	1	-1
81.5	1	-1	-1
88.0	1	1	-3
96.4	9	3	3
29.2	9	-3	-3
46.0	9	-3	-1
107.2	1	1	3
58.9	9	-3	1
97.4	1	1	1
79.7	9	3	1

Assignment Project Exam Help

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- 1) Estimate the parameters of a regression model that relates  $x_1$ ,  $x_2$ , and  $x_3$  to  $y$ .
- 2) Test for the significance of the regression model using the analysis of variance.  
Interpret the test at the 1% significance level. What is your conclusion?
- 3) Test for the significance of the individual coefficients using t tests.  
Interpret the tests at the 5% significance level. What are your conclusions?

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