Fit: Y

Surface finish (Montgomery 2001, page 587)

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Fit

N	16
R^2	0.790
R^2 adjusted	0.607
RMSE	1.56

Effect of Model

Source	SS	DF	MS	F	p-value
Difference	73.4	7	10.5	4.30	0.0288
Error	19.5	8	2.4		
Null model	92.9	15	6.2		

H0: $E(Y|X=x) = \mu$

The model is no better than a null model $Y=\mu$.

H1: $E(Y|X=x) = \beta_0 + \beta_1 x_1 + \beta_2 x_2 + \ldots$

The model is better than the null model.

Effect of Terms

Term	SS	DF	MS	F	p-value
A	45.6	1	45.6	18.69	0.0025 [1]
B	10.6	1	10.6	4.33	0.0709 [2]
A x B	7.6	1	7.6	3.10	0.1162 [2]
C	3.1	1	3.1	1.26	0.2948 [2]
A x C	0.1	1	0.1	0.03	0.8767 [2]
B x C	1.6	1	1.6	0.64	0.4465 [2]
A x B x C	5.1	1	5.1	2.08	0.1875 [2]

H0: $\beta_{Term} = 0$

The term does not contribute to the model.

H1: $\beta_{Term} \neq 0$

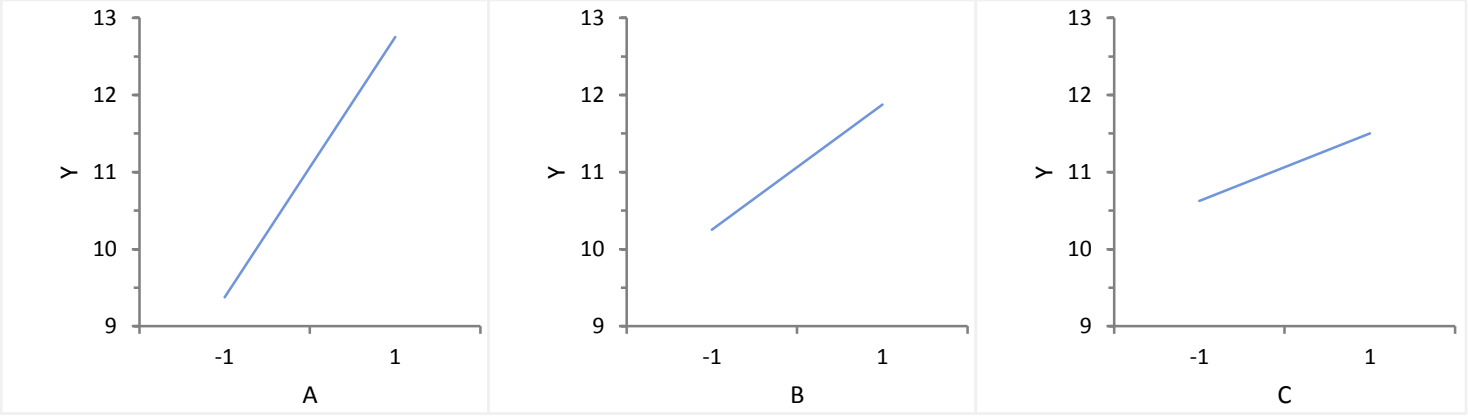
The term contributes to the model.

[1] Reject the null hypothesis in favour of the alternative hypothesis at the 5% significance level.

[2] Do not reject the null hypothesis at the 5% significance level.

Effect Means

Main Effects



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2-way Interaction Effects