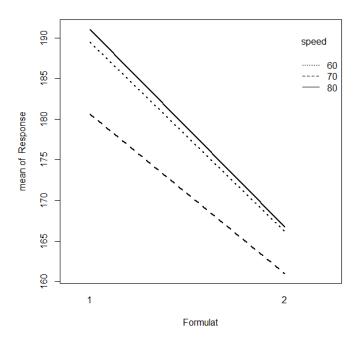
1. Chapter 11, Section 11.2, Exercise 16 a b c e. "In an experiment to assess ... curing time ..." Give the F statistic, rejection region, and conclusion for parts (b) and (c). For the T Method (underscoring) procedure in part e, see Formula 11 I. Use Formula 11 H to find the df's.

2.

Chapter 11, Section 11.2, Exercise 18

Assume a two-way interaction model with fixed-effects. The ANOVA table and interaction plot are given below.

```
Df Sum Sq Mean Sq F value
Formulat
                1 2253.4 2253.4 376.271 1.99e-10 ***
Speed
                   230.8
                           115.4
                                 19.270 0.000179 ***
Formulat:Speed 2
                    18.6
                             9.3
                                   1.551 0.251639
Residuals
               12
                             6.0
                0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Signif. codes:
```



- a. At the α =.05 level of significance, which effects (Formulation, Speed, Formulation-Speed interaction) are significant? Give corresponding P-values.
- c. Refer to the interaction plot.
- i. Which level combination of Formulation and Speed gives the highest value of Yield on average?
- ii. Compute the fitted value for this combination.

You can use the following code for producing the ANOVA table and plot in R. library(Devore7) ##You need to install this package if you are using it for the first time