

Extra Credit
Due Date: 12/5 by 10 PM

Problem 1 (5 points): Take the given information $df \text{ Error} = 21$, $df \text{ Total} = 24$, $SSR = 345$, and $SSE = 903$ to construct an ANOVA table and show all steps for overall fit of regression.

Problem 2 (5 points): The following regression model is based on a data that consists of 20 weeks of a firm's accounting and production records on cost information about the firm's shipping department:

$$Lab = \beta_0 + \beta_1 Tws + \beta_2 Pst + \beta_3 Asw + \beta_4 Num + \epsilon, \quad (1)$$

where Lab = weekly labor hours, Tws = total weight shipped in thousands of pounds, Pst = proportion shipped by truck, Asw = average shipment weight in pounds, and Num = week number.

Model	Sample Size	Multiple R-squared	Adjusted Multiple R-squared	Std. Error
1	20	0.8196	0.7715	9.103

Complete the ANOVA table.

ANOVA

Model	df	SS	MS	F-stat	Pr(>F)
Regression			1411.513		.000
Residual		1242.898			
Total					