

2000

Math 583

Quiz 3 Fall 2004

Name _____

Label	Estimate	Std. Error	t-value	p-value
Constant	67.7205	10.1386	6.679	0.0000
x2	0.855760	0.0978795	8.743	0.0000
x3	1.11075	0.0761744	14.582	0.0000

R Squared: 0.995764
 Sigma hat: 38.6631
 Number of cases: 53
 Degrees of freedom: 50

Summary Analysis of Variance Table

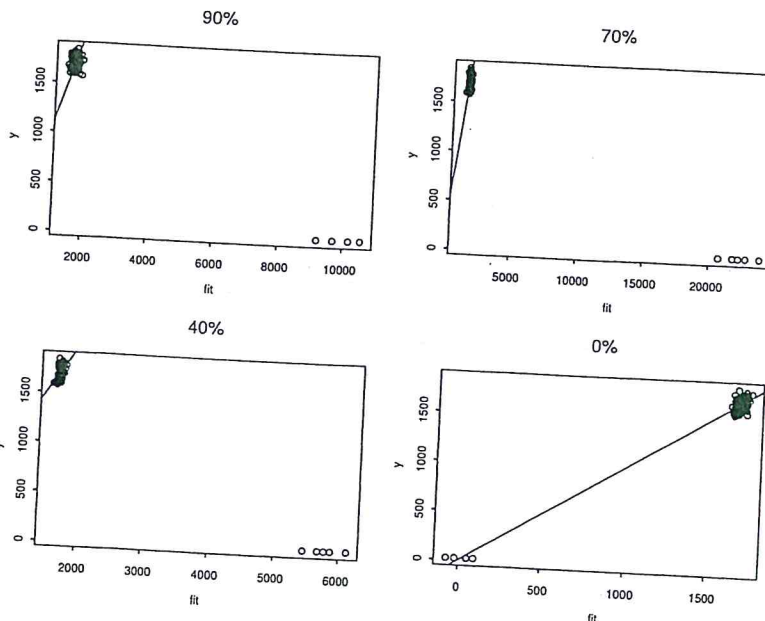
Source	df	SS	MS	F	p-value
Regression	2	17568824.	8784412.	5876.51	0.0000
Residual	50	74741.8	1494.84		

1) The output above is for predicting $Y = \text{skeleton length}$ from $X_2 = \text{spine length}$ and $X_3 = \text{leg length}$.

a) Predict Y if $X_2 = 390$ and $X_3 = 430$.

$$\hat{y} = 67.7205 + 0.85576(390) + 1.11075(430) = 879.089$$

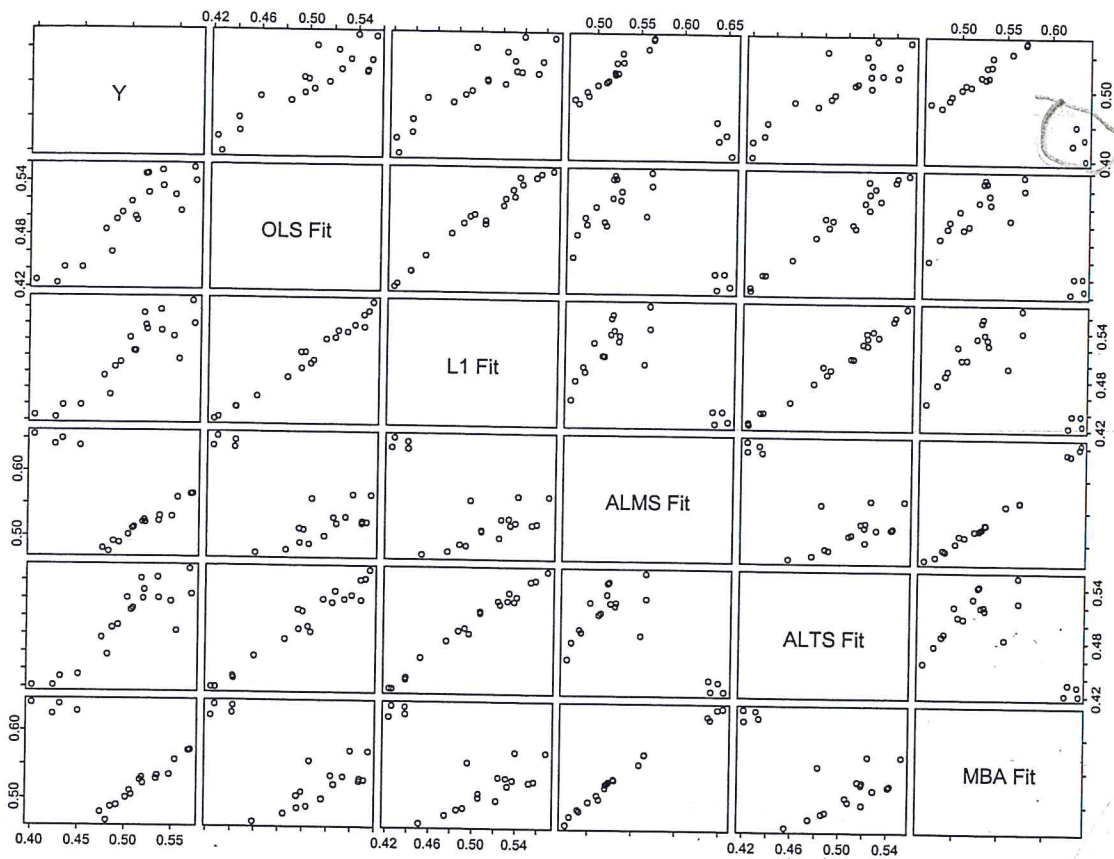
9) From the plot shown, which trimmed views estimator is the least outlier resistant: 90%, 70%, 40% or 0%?



0%

Identify the best through the outliers

3



5) In the data set from which the above FF plot was made, there are 4 outliers. In one of the plots in the top row, circle the 4 outliers. What is the name of the 5 plots in the top row?

response plot } or -3

100