Homework 3

r 2 comp = (SSY-SSE)/SSY r 2 comp

Jacob Plaza 3/2/2022

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1) There are no postderns in the residual plot, so the assumption of constant variance is not violated. Also, from the histogram it appears that the data is normally distributed.

2)		Degree Freedom	Sum of Sq.	-	FRATIO	
	Regression		4.93598	4.93591	30.01	
		30	2.7237	0.1695		
	Residual					
			And the second			
	Total	31	7.93968			
						1

SSE = 0.09079 (30) = 2.7237

SST = 7.65968 - 2.7237 = 4.93398

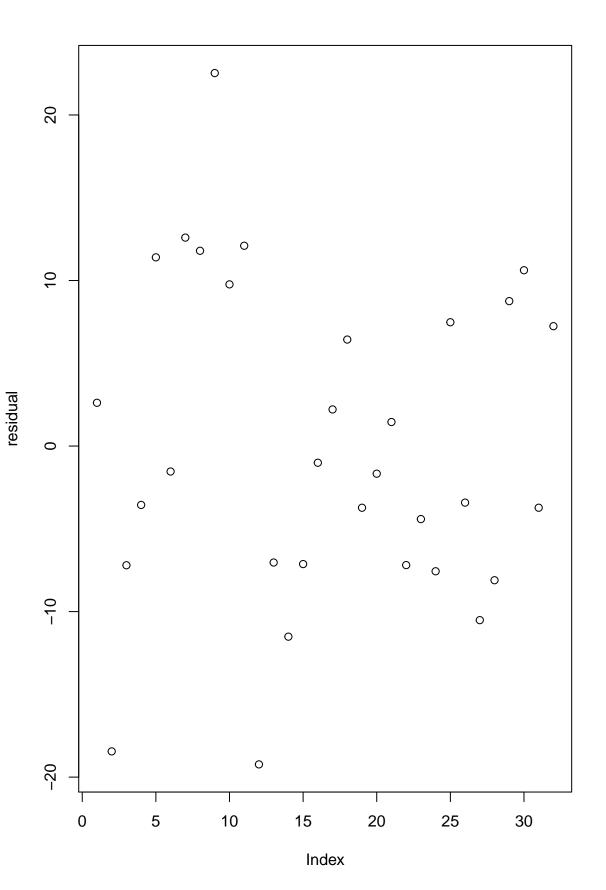
MST = 4.93598 MSE - 4.93598 30 F= 4.93598 = 30.01 = 0.1645

- a) The correlation coefficient will be low since the seather plot does not suggest a linear nelchostip.
- b) The comelation coefficient is very small, co. 37261 indicating a weak linear relationship between Armstreyth ? Ognamicling
- O P-value = 0.05217 since 0.08217 = 6.05,

 Sig = 0.08 we do not reject

 Null hypothesis.

 There is no linear relationship.
- d) They yield the same results.
- e) the fit is bad. The R2 shows that Armstrength only explains 15.4% of Variation in Dynamic lift. Therefore, a livear woold is not appropriate.



Histogram of residual

