1. | BpH | ~ 10 BK ~ 5 10 > 5 so effect of changing pH is greater than changing K * a) is also correct. 76) There is 6 requirment for MLR & F-test.

- 1) Zero Mean
- Linearlty 1)
- 3) Constant Variance
- 4) Independence
- 5) Randomness
- 6) Normality

These requirment are met for both model 3 & 1 by looking at their residual & q-q plots. The spread scems constant & the residual seems to align themselvy along theoretical line. Thus, the two tests in 6b & 7a are equally reliable.

- 1) Do added variable plot to see whether the new predictor 8.) can explain variance in the error of old model.
 - Po a Mallow's Cp comparison between the full-model c with all predictors that we have be reduced model that only have the already used predictors & the one new one that we want to add. If Cp of the reduce model is smaller than may where m is number st predictors used, it is worth looking at the model.

3.) Calculating the adjusted R-square of the model to see if it is closer to 1 than the old model. If it is closer, it is worth considering/analysing the new rundel with the new predictor.