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## MTH 441A: Lab 8

- **P 1.** Consider the Hald Cement data set given in Table 10.1 of Montgomery Book. Find a subset model based in  $\mathbb{R}^2$ :
- (a) Calculate the maximum  $R_p^2$  for each set of regression models containing  $\binom{5}{p}$  regressors for  $p=1,\ldots,4$ .
- $\begin{picture}(20,0)\put(0,0){\line(1,0){100}}\put(0,0)$
- (c) Observe the plot and recommend a suitable model.
- **P 2** Repeat exercise **P 1** with  $R^2$  replaced by adjusted  $R^2$ .