

MATE-T580: Quiz 6

Name:

For questions 1-4, indicate whether we would **generally** expect the performance of a flexible model to be better or worse than an inflexible model.

(Remember: a flexible model is the more complex model, it has higher degrees of freedom)

Question 1

The sample size n is extremely large, and the number of predictors p is small:

A.

The flexible model is better

B.

The flexible model is worse

Question 2

The number of predictors p is extremely large, and the sample size n is small:

A.

The flexible model is better

B.

The flexible model is worse

Question 3

The relationship between the predictors and response is highly non-linear:

A.

The flexible model is better

B.

The flexible model is worse

Question 4

The variance of the error terms, i.e. $\sigma^2 = \text{Var}(\epsilon)$, is extremely high:

A.

The flexible model is better

B.

The flexible model is worse

Question 5

For the project we'll be doing in this course, the name of your team member is:

Describe the dataset you'll be using in no more than one line: