

John

Quiz 1

1.) $y = f(x) + \epsilon$

2.)

3.) This would be considered unsupervised learning since the only data being used is the "inputs" or features. Hence it is used for classification and makes inferences rather than predicting outcomes.

4.) The testing MSE is represented by the Orange curve since it shows an initial drop due to a more flexible model then increases due to added variance from complexity.

b.) The dashed line represents the irreducible error (ϵ).