

Class 9 Clicker Question 1

Why are contours of constant $\hat{p}(\mathbf{x})$ linear?

- A Because of the properties of the multivariate normal distribution
- B Because $p(\mathbf{x})$ is a linear function of the parameters \mathbf{a}
- C Because $p(\mathbf{x})$ is a linear function of the parameter b
- D Because $p(\mathbf{x})$ a linear function of the parameters β_j
- E Because it is called **linear** discriminant analysis.



Class 9 Clicker Question 2

Why does the function `multinom` in R give two sets of parameter estimates (`Coefficients`) here?

- A Because there are 2 classes
- B Because there are 2 explanatory variables
- C Because logistic regression classifies a 0/1 response
- D Because 2 linear predictors are needed
- E Because there are 2 parameters to be estimated.



Class 9 Clicker Question 3

Comparing logistic regression and LDA, which class decision boundaries do you prefer for the Admissions Data?

- A LDA, because the boundaries make more sense
- B Logistic regression, because the boundaries make more sense
- C LDA, because it uses a normality assumption
- D Logistic regression, because it does not use a normality assumption
- E Neither.

