

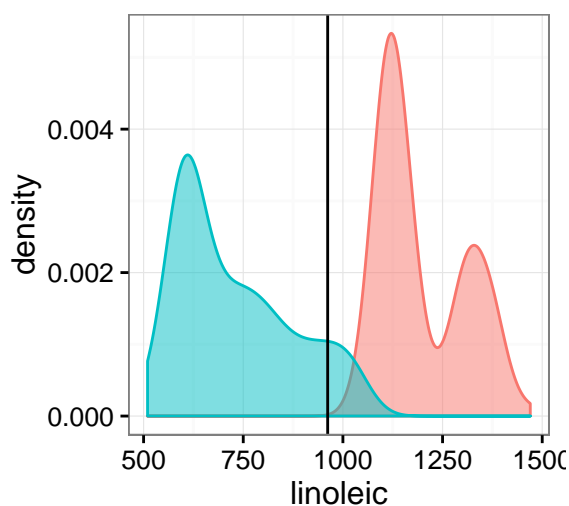
Supervised Classification Quiz 1

SOLUTION

Question 1

Below are the summary statistics for linoleic acid, in the olive oils data (m=mean, s=sd).

region	m	s
Sardinia	1196	107
North	727	143



- Sketch the LDA boundary on the plot.
- A new observation with linoleic acid equal to 1000 would be classified into which region? **North**

Question 2

The pooled variance is the same as the variance across all groups. **FALSE**

Question 3

If the prior probability for group 1 is higher than group 2, the LDA boundary is actually shifted towards group 1? **NO**

Question 4

Compute the classification error from the tabulation of true class vs predicted class below. **Error rate is 0.1**

	Pred Sard	Pred North
Sardinia	98	0
North	15	136