aChart, scatter chart

Description automatically generated

bA picture containing graphical user interface

Description automatically generatedChart, scatter chart

Description automatically generated

cText

Description automatically generatedA picture containing graphical user interface

Description automatically generated

The analytic forms to LDA is

The analytic forms to QDA is

dA screenshot of a computer screen

Description automatically generated

Chart, scatter chart

Description automatically generatedDiagram

Description automatically generated

eGraphical user interface, text, application

Description automatically generated

The error rate is 0.0733

f

Yes. We can augment every by adding to the vector and follow the exact same process in part (e) to perform QDA. Since the QDA in part (c) has different dimension and . It is not identical to the QDA in c.