Example 7.1 One of the first data sets used for classification purposes was one with three species of iris: *setosa*, *versicolor*, and *virginica*. There were four features measured on each species, with 50 objects per group. The four features describe the shape and size of the flower and are sepal and petal length and width. The actual observations are given in Table 7.1. The mean vectors and covariance matrices are given in Table 7.2.