1 Q1 (ISLR 12.1)

2 Q2 (ISLR 12.3)

3 Q3 (ISLR 12.9)

4 Q4 (ISLR 12.10)

5 Q5 (ISLR 12.13)

6 Q6

6.0.1 a.

Load the `crabs` dataset from the `MASS` package. Make a data matrix X consisting of only the quantiative variables.

6.0.2 b.

Run PCA on the dataset. Make a scatter plot of the first two PCs against each other and color the points by `sex`. What interpretation is there of the PCs?

6.0.3 c.

Repeat (b) but color by the species `sp`.