

for  $K = 0.1$ , we obtain

$$w = \begin{pmatrix} 1.1651 \\ 1.1341 \end{pmatrix}, \quad b = -1.2255,$$

and for  $K = 0.01$ ,

$$w = \begin{pmatrix} 1.1709 \\ 1.1405 \end{pmatrix}, \quad b = -1.2318.$$

See Figure 55.2.

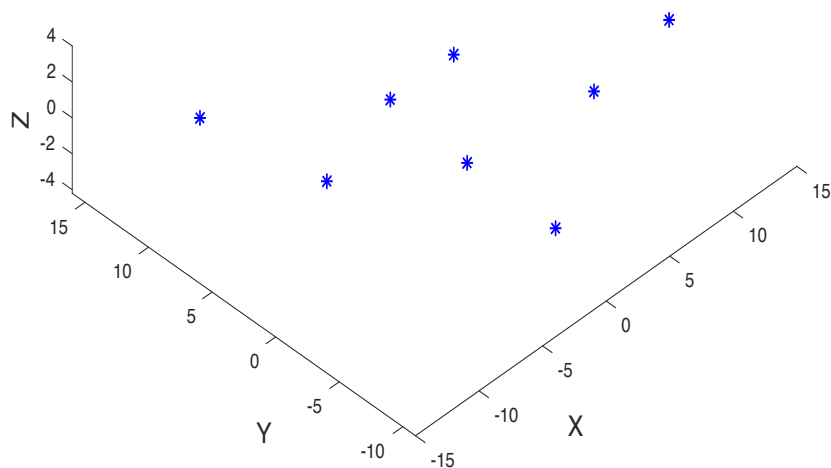


Figure 55.1: The data set  $(X, y_1)$  of Example 55.1.

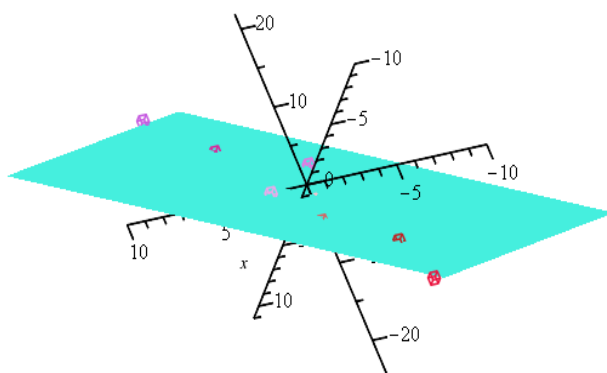


Figure 55.2: The graph of the plane  $f(x, y) = 1.1709x + 1.1405y - 1.2318$  as an approximate fit to the data  $(X, y_1)$  of Example 55.1.