

**EX.4.3.7.a, Sauer3**

Use the QR factorization from Exercise EX.4.3.2.a, EX.4.3.4.a, or EX.4.3.6.a to solve the following least squares problem

$$\begin{bmatrix} 2 & 3 \\ -2 & -6 \\ 1 & 0 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 3 \\ -3 \\ 6 \end{bmatrix}.$$