Theoretical Homework 5, due Wednesday, 17th March

Do the following problems in your textbook:

§8.1: 4(deg 1 and 2 only), 14

Find the QR decomposition of the matrices:

$$
A_1 = \begin{bmatrix} 1 & -1 & 1 \\ 1 & 1 & 2 \\ 1 & 0 & 1 \end{bmatrix} \quad \text{and} \quad A_2 = \begin{bmatrix} 0 & 1 & 1 & 1 \\ 2 & -1 & 2 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 1 \end{bmatrix}
$$

§8.5: 2, 6, 7(a,c), 8(a,c)