

LE 200 Homework #4

Please show all details of your solutions.

1. Kreyszig's 7.7 7-10 (1), 11-12 (1), 13-15 (1)

2. Kreyszig's 7.7 21-22 (1), 23-25 (1)

3. Find the inverse matrices using adjoint matrix.

(i)
$$\begin{bmatrix} 1 & 0 & 1 \\ 2 & 1 & 2 \\ 1 & 1 & 2 \end{bmatrix}$$

(iii)
$$\begin{bmatrix} 1 & 1 & 1 \\ 1 & 2 & 2 \\ 1 & 3 & 1 \end{bmatrix}$$

(ii)
$$\begin{bmatrix} 2 & 1 & 0 \\ 3 & 0 & 1 \\ 0 & 1 & 1 \end{bmatrix}$$

(iv)
$$\begin{bmatrix} 1 & 2 & 3 \\ 0 & 1 & 2 \\ 0 & 0 & 1 \end{bmatrix}$$