

Oef 9 p A.30

$$A = \begin{pmatrix} 2 & 3 & 1 \\ 0 & -1 & 2 \end{pmatrix}; B = \begin{pmatrix} 0 & 1 & -1 \\ 4 & -1 & 2 \end{pmatrix}$$

$$C = \begin{pmatrix} 1 & 2 \\ 3 & -1 \end{pmatrix}; D = \begin{pmatrix} 2 & 1 \\ 1 & 1 \end{pmatrix}; E = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

Lev

$$A+B = \begin{pmatrix} 2+0 & 3+1 & 1-1 \\ 0+4 & -1-1 & 2+2 \end{pmatrix} = \begin{pmatrix} 2 & 4 & 0 \\ 4 & -2 & 4 \end{pmatrix}$$

$$DA = \begin{pmatrix} 2 & 1 \\ 1 & 1 \end{pmatrix} \begin{pmatrix} 2 & 3 & 1 \\ 0 & -1 & 2 \end{pmatrix}$$

kolommen van D = # rijen van A
 $(2 \times 2) \cdot (2 \times 3)$

$$DA = \begin{pmatrix} 2 \cdot 2 + 1 \cdot 0 & 2 \cdot 3 + 1 \cdot (-1) & 2 \cdot 1 + 1 \cdot 2 \\ 1 \cdot 2 + 1 \cdot 0 & 1 \cdot 3 + 1 \cdot (-1) & 1 \cdot 1 + 1 \cdot 2 \end{pmatrix}$$

$$= \begin{pmatrix} 4 & 5 & 4 \\ 2 & 2 & 3 \end{pmatrix}$$

$$E^T C^T = (1 \ -1) \begin{pmatrix} 1 & 3 \\ 2 & -1 \end{pmatrix}$$

$$\begin{matrix} \downarrow & \downarrow \\ (1 \times 2) & (2 \times 2) \\ \downarrow & \downarrow \\ (1 \times 2) & (2 \times 2) \end{matrix} = \begin{pmatrix} -1 & 4 \end{pmatrix}$$