söndag 3 mars 2024 23:07

8.159

$$K = \begin{pmatrix} 2 & -6 & 4 \\ -6 & 21 & 0 \\ 4 & 0 & 13 \end{pmatrix}$$

$$\begin{pmatrix} 2 & -6 & 4 \\ -6 & 21 & 0 \end{pmatrix} = \begin{pmatrix} 1 & -3 & 2 \\ -6 & 21 & 0 \\ 4 & 0 & 13 \end{pmatrix} = \begin{pmatrix} 0 & -3 & 2 \\ -6 & 21 & 0 \\ 2 & 0 & 13 \end{pmatrix} = \begin{pmatrix} 1 & -3 & 2 \\ 0 & 3 & 0 \\ 2 & 0 & 13 \end{pmatrix}$$

$$= \begin{pmatrix} 1 & -3 & 2 \\ 0 & 1 & 0 \\ 0 & 125 \end{pmatrix} \begin{pmatrix} 0 & -120 \\ 0 & 0 & 5 \end{pmatrix} \begin{pmatrix} 1 & -3 & 2 \\ 0 & 1 & 0 \\ 0 & 0 & 5 \end{pmatrix} \begin{pmatrix} 1 & -3 & 2 \\ 0 & 1 & 0 \\ 0 & 0 & 5 \end{pmatrix}$$

$$D = \begin{pmatrix} 2 & 0 & 0 \\ 0 & 3 & 0 \\ 0 & 0 & 5 \end{pmatrix}$$

(8v: den so presitivt definit