10.06*

söndag 3 mars 2024 23:03

$$\alpha$$
 sats 10.2 $\alpha^{+} \alpha = I$

$$\frac{C}{dt} \left(2T - A \right) = \begin{vmatrix} 2+1 & -12 \\ -12 & 2-6 \end{vmatrix} = (2+1)(2-6) - 144 =$$

$$= 2^{2} - 52 - 150 = 0 \qquad 2_{1} = -6 \qquad 2_{2} = 15$$

$$\frac{(-10\pm -4) \times = 0}{\int_{-12}^{-9} \times_{1}^{-12} \times_{2}^{-9}} = 0$$

$$= 0$$

$$= 0$$

$$= 0$$

$$= 0$$

$$= 0$$

$$= 0$$

$$= 0$$

$$\frac{(15T-A)\times=0:}{\begin{cases} 16\times (-12\times 2=0) \\ -(2\times (+9\times 2=0) \end{cases}}$$

$$\begin{cases} 4x_1 = 3\times 2 \\ 0 = 0 \end{cases}$$

$$\begin{cases} 5x_1 = 3 \times 2 \\ 0 = 0 \end{cases}$$

$$t_{1} = \frac{1}{\sqrt{\frac{16}{9} + 1}} = \frac{1}{5/3} = \frac{3}{5}$$

$$t_{2} = \frac{1}{\sqrt{\frac{9}{16} + 1}} = \frac{1}{5/4} = \frac{4}{5}$$

$$Q = \begin{pmatrix} -4/5 & 3/5 \\ 3/5 & 4/5 \end{pmatrix} = \frac{1}{5} \begin{pmatrix} -4 & 3 \\ 3 & 4 \end{pmatrix}$$

$$Q^{T}Q = \frac{1}{25} - \frac{4}{3} - \frac{3}{4} - \frac{4}{3} - \frac{3}{4} - \frac{1}{3} - \frac{1}{4} - \frac{1}{3} - \frac{1}{3} - \frac{1}{4} - \frac{1}{3} - \frac{1}{4} - \frac{1}{3} - \frac{1}{4} - \frac{1}{3} - \frac{1}{4} - \frac{1}{3} - \frac{1}{3} - \frac{1}{4} - \frac{1}{3} - \frac{1}$$

$$=\frac{1}{2\Gamma}\begin{pmatrix}25\\0\\25\end{pmatrix}=\pm$$

$$\begin{array}{lll}
\bar{Q} & A & Q = \frac{1}{25} \begin{pmatrix} -4 & 3 \\ 3 & 4 \end{pmatrix} \begin{pmatrix} -1 & 12 \\ 12 & 6 \end{pmatrix} \begin{pmatrix} -4 & 3 \\ 2 & 4 \end{pmatrix} = \\
& = \frac{1}{25} \begin{pmatrix} 40 & -30 \\ 45 & 60 \end{pmatrix} \begin{pmatrix} -4 & 3 \\ 3 & 4 \end{pmatrix} = \\
& = \frac{1}{25} \begin{pmatrix} -250 & 0 \\ 3 & 4 \end{pmatrix} = \\
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& = \frac{1}{25} \begin{pmatrix} -250 & 0 \\ 3$$

$$= \begin{pmatrix} 10 & 0 \\ 0 & 15 \end{pmatrix}$$