

Condition Lear paper

1)
$$A \cdot A_{2} = \begin{pmatrix} 0+i & -i \cdot 0+0 \\ 0+D & 0 + -i \end{pmatrix} = \begin{pmatrix} i & 0 \\ 0 & -i \end{pmatrix}$$
 $A_{2} \cdot A_{3} = \begin{pmatrix} 0+0 & 0-1 \\ 1+0 & 0+0 \end{pmatrix} = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$
 $A_{1} \cdot A_{2} = \begin{pmatrix} 0+1 & 0+0 \\ 0+1 & 0+0 \end{pmatrix} = \begin{pmatrix} 1 & 0 \\ 0-1 \end{pmatrix} = \begin{pmatrix} 1+0 & 0+0 \\ 0+0 & 0+1 \end{pmatrix} = \begin{pmatrix} 1&0 \\ 0&1 \end{pmatrix}$
 $A_{1} \cdot A_{2} = \begin{pmatrix} 0+1 & 0+0 \\ 0+0 & 1+0 \end{pmatrix} = \begin{pmatrix} 1&0 \\ 0&1 \end{pmatrix} = \begin{pmatrix} 1&0 \\ 0&1 \end{pmatrix}$
 $A_{2} \cdot A_{2} = \begin{pmatrix} 0+1 & 0+0 \\ 0+0 & 1+0 \end{pmatrix} = \begin{pmatrix} 1&0 \\ 0&1 \end{pmatrix} = \begin{pmatrix} 1&0 \\ 0&1 \end{pmatrix}$
 $A_{3} \cdot A_{3} = \begin{pmatrix} 1+0 & 0+0 \\ 0&1 \end{pmatrix} = \begin{pmatrix} 1&0 \\ 0&1 \end{pmatrix} = \begin{pmatrix} 1&0 \\ 0&1 \end{pmatrix}$
 $A_{3} \cdot A_{3} = \begin{pmatrix} 1&0 & 0+0 \\ 0&1 \end{pmatrix} = \begin{pmatrix} 1&0 \\ 0&1 \end{pmatrix} = \begin{pmatrix} 0&1 \\ 0&1 \end{pmatrix} = \begin{pmatrix} 0&2 \\ 0&0 \end{pmatrix}$
 $A_{1} \cdot A_{2} = \begin{pmatrix} 0&1 \\ 0&1 \end{pmatrix} + \begin{pmatrix} 0&1 \\ 0&1 \end{pmatrix} = \begin{pmatrix} 0&2 \\ 0&0 \end{pmatrix}$
 $A_{1} \cdot A_{2} = \begin{pmatrix} 0&1 \\ 0&0 \end{pmatrix} + \begin{pmatrix} 0&1 \\ 0&1 \end{pmatrix} = \begin{pmatrix} 0&0 \\ 0&0 \end{pmatrix} = \begin{pmatrix} 0&0 \\ 0&1 \end{pmatrix} = \begin{pmatrix} 0&0&0 \\ 0&1&1 \end{pmatrix} = \begin{pmatrix} 0&0&0 \\ 0&1&1&1 \end{pmatrix} = \begin{pmatrix} 0&0&0 \\ 0&1&1&1&1 \end{pmatrix} = \begin{pmatrix} 0&0&0 \\ 0&1&1&1&1 \end{pmatrix} = \begin{pmatrix} 0&0&0&0 \\ 0&1&1&1&1&1 \end{pmatrix} = \begin{pmatrix} 0&0&0&0&0 \\ 0&1$

$$A_{3} \cdot u_{2} = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix} \cdot \begin{pmatrix} 0 \\ 1 \end{pmatrix} = \begin{pmatrix} 0 + 0 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

$$\begin{pmatrix} A_{1} + i & A_{2} \end{pmatrix} u_{2} = \begin{pmatrix} 0 & 2 \\ 0 & 0 \end{pmatrix} \begin{pmatrix} 0 \\ 1 \end{pmatrix} = \begin{pmatrix} 0 + 2 \\ 0 + 0 \end{pmatrix} = \begin{pmatrix} 2 \\ 0 \end{pmatrix}$$

$$\begin{pmatrix} A_{1} - i & A_{2} \end{pmatrix} u_{2} = \begin{pmatrix} 0 & 0 \\ 2 & 0 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} = \begin{pmatrix} 0 + 0 \\ 0 + 0 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

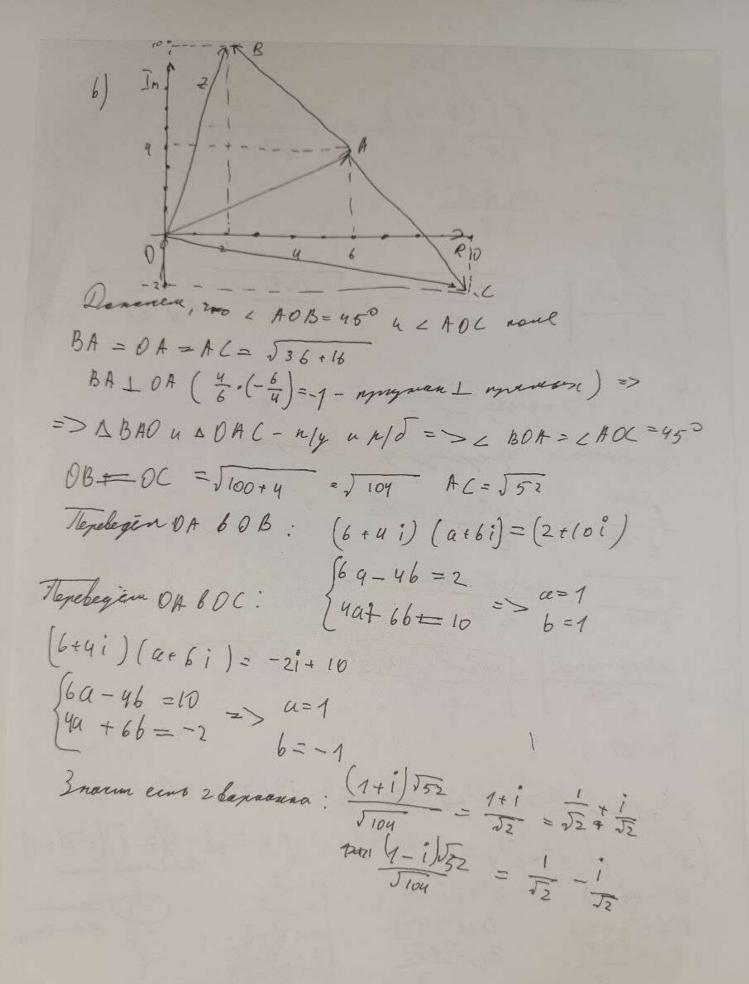
$$A_{3} \cdot u_{2} = \begin{pmatrix} 0 & 2 \\ 0 & 0 \end{pmatrix} \begin{pmatrix} 0 \\ 1 \end{pmatrix} = \begin{pmatrix} 0 + 0 \\ 0 + 0 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

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$$A_{1} - i & A_{2} \end{pmatrix} u_{2} = \begin{pmatrix} 0 & 0 \\ 2 & 0 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} = \begin{pmatrix} 0 + 0 \\ 0 + 0 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$A_{1} - i & A_{2} \end{pmatrix} u_{2} = \begin{pmatrix} 0 & 0 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} 1 & 0 \\ 1 & 0 \end{pmatrix} = \begin{pmatrix} 0 & 0 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 0$$



$$\frac{5i}{8-2i} = \frac{5i(8+2i)}{64+4} = \frac{40i-10}{68}$$

$$\frac{5i}{8-2i} = \frac{-20i + 5}{34}$$

$$\begin{vmatrix}
-5-20i \\
59
\end{vmatrix} = \sqrt{25-400} = \sqrt{25-39}$$

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-5-20i \\
59
\end{vmatrix} = \sqrt{25-39}$$

$$\begin{vmatrix}
-5-20i \\
5-25-39
\end{vmatrix} = \sqrt{25-39}$$

$$\begin{vmatrix}
-5-20i \\
2-25-39
\end{vmatrix} = \sqrt{25-39}$$

$$\begin{vmatrix}
-5-20i \\
2-25-39
\end{vmatrix} = \sqrt{25-39}$$

$$\begin{vmatrix}
-5-20i \\
2-3-39
\end{vmatrix}$$

1.
$$a = \frac{d^{2}x}{dt^{2}}$$

From $e^{2} - 6\frac{dx}{dt}$
 $f_{mn} = -Kx$
 f_{mn

$$4. \omega_{0} = \sqrt{\frac{u}{0.1}} = 2\sqrt{10} \text{ res/c}$$

$$Y = \frac{0.2}{0.2} = 1c^{-1}$$

$$\sqrt{\omega_{0}^{2} - y^{2}} = \sqrt{39} = 6.24 \text{ res/c}$$

$$x_{0} = \sqrt{2}$$

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$$\sqrt{x_{0}} = \sqrt{3} = \sqrt$$

1)
$$V = I_{1}(R_{1} + j\omega M_{2}) + j\omega M_{2} + j\omega M_{2}$$
 $j\omega MI_{1} = -I_{2}(RR_{2} + j\omega L_{2})$
 $I_{1} = +\frac{R_{2} + j\omega L_{2}(R_{2} + j\omega L_{2})}{\omega^{2}M^{2} + (R_{1} + j\omega L_{2})}$
 $I_{2} = +\frac{R_{2} + j\omega L_{2}(R_{2} + j\omega L_{2})}{\omega^{2}M^{2} + (R_{1} + j\omega L_{2})}$
 $= (R_{2} + j\omega L_{2})$

2)
$$P_{L} = T^{2}, R_{L}$$

1. $P_{UCT} = T^{2}, R_{L}$
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3)
$$f_0 = \frac{1}{2\pi \sqrt{L_1 L}} = > L = \frac{1}{(2\pi f_0)^2 L}$$

$$C_1 = \frac{1}{(2\pi \cdot 200 \cdot 10^3)^2 \cdot 100 \cdot 10^{-6}} = \frac{1}{4\pi^2 \cdot 10000000}$$

$$C_2 = \frac{1}{(2\pi \cdot 200 \cdot 10^3)^2 \cdot 40 \cdot 10^{-6}} = \frac{1}{64\pi^2 \cdot 1000000}$$

4)
$$P_{L} = \overline{I_{2}}^{2}$$
, $P_{D} + \overline{P_{L}} = \overline{I_{2}}^{2}$, $P_{D} + \overline{P_{L}} = \overline{I_{2}}^{2}$, $P_{D} = \overline{I_{2}}^{2}$, $P_{$

$$5.1_{99} = \frac{1}{05} = \frac{9.02}{5} = 9.004$$