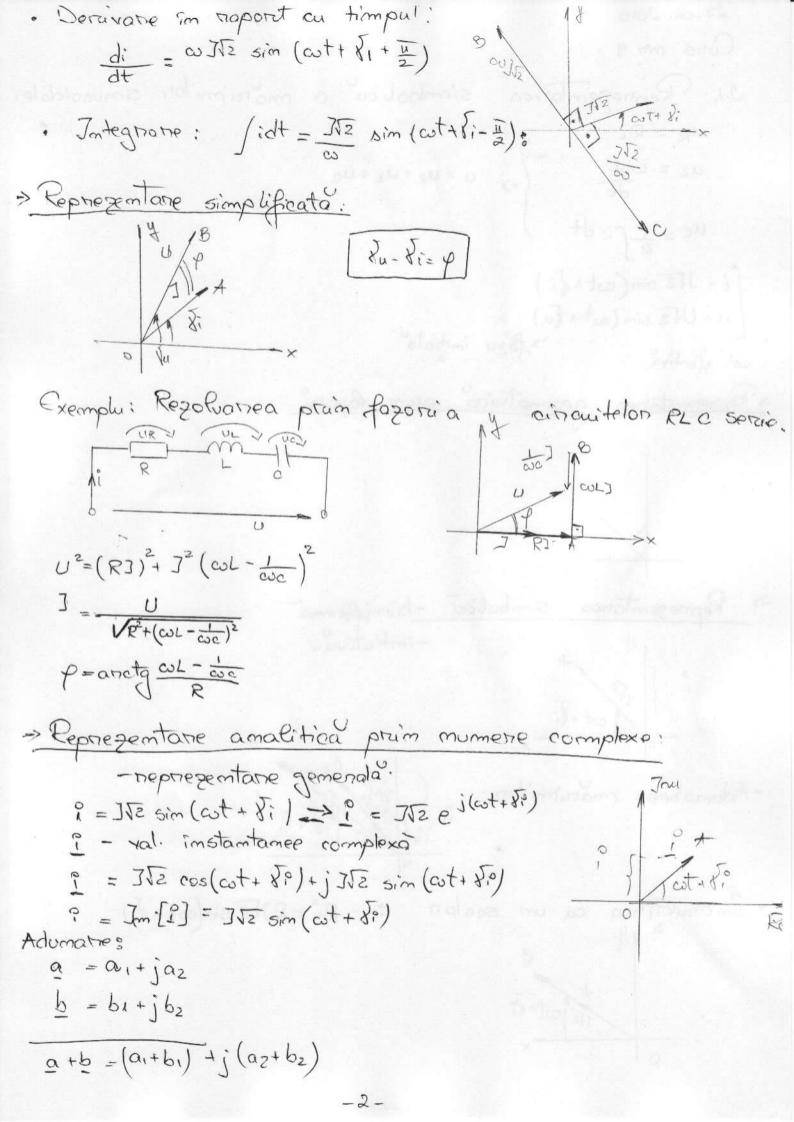
27.04.2010 Cuts Mt 9: 24. Repriegentation simbolica a matrimilori simusoidale.

UR = Ri UL = L.di (=> U=UR+UL+UC ue = to fi-dt (i = 112 sim (aut + Vu)

-> faza imitials [i =][z sim (at + [i) > Representative geometrica prim -> Representanca simbolica -biumiforma
-intiutiva. : Ri = RJ(Z sim(out + di)

-1-

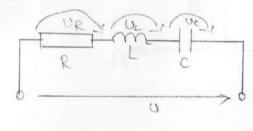


- · Îmmultinea ru um scalar: R.º => [·R=R] [2. e (cot+p.º)
- · Derivane ;

L di =
$$col \cdot J \overline{l} z sim (cot + \delta i + \frac{1}{2})$$

L di => $col \cdot J \overline{l} z sim (cot + \delta i + \frac{1}{2})$
 $e^{j\frac{\pi}{2}} = cos \pi + j sim \frac{\pi}{2} = j = >$
 $e^{j\frac{\pi}{2}} = -j$
 $e^{j\frac{\pi}{2}} = -j$
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· Integrane: jedt = ?



$$U = R \cdot J + j \omega L \cdot J + J$$

$$U = \begin{bmatrix} R + j \cdot (\omega L - \frac{1}{\omega c}) \end{bmatrix} \cdot J$$

$$J = \frac{U}{R + j \cdot (\omega L - \frac{1}{\omega c})}$$

$$J = \frac{U}{R^2 + (\omega L - \frac{1}{\omega c})^2}$$

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$$\frac{1}{Z} = \frac{U}{J} - \frac{U \cdot e^{i\delta u}}{J \cdot e^{i\delta i}} = \frac{U}{J} \cdot e^{i\delta} = \frac{2\cos \gamma + j \cdot 2\sin \gamma}{2\sin \gamma}$$

$$\underline{Z} = \underline{U} = R + \int [\omega L - \frac{1}{\omega \alpha}]$$

si polerrea

$$\frac{1}{y} = \frac{1}{Z}$$

$$\frac{1}{y} = \frac{1}{R+jX} = \frac{R-jX}{R^2+x^2} = \frac{R}{R^2+x^2} = \frac{1}{R^2+x^2} = \frac{X}{R^2+x^2}$$

$$\frac{1}{Z} = -R+jX$$

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$$\int = G - \int B$$

$$G = \frac{R}{R^2 + x^2} \quad B = \frac{X}{R^2 + x^2}$$

· Puteriea complexa:

5 = U.J.elf = U.J.cosp+juJsimps