

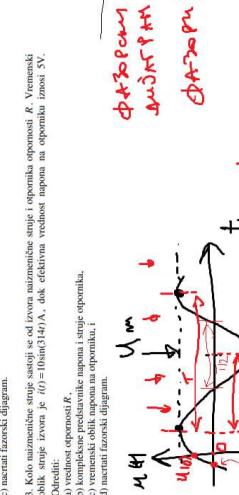
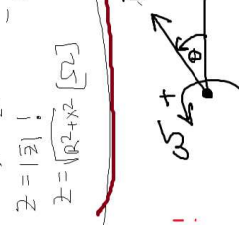
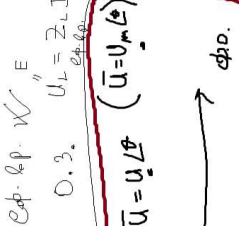
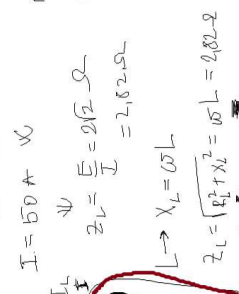
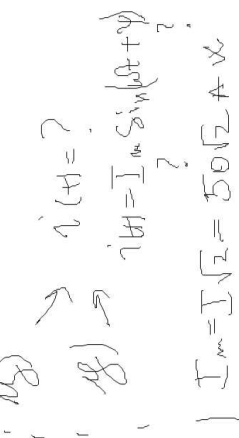
$\vec{d} \rightarrow$ gffin \vec{u}_{eff}
 $A \sin \omega t$
 $i(t) = ?$
 $i(t) = I_m \sin(\omega t + \psi)$

$I_m = I \sqrt{2} = 50 \sqrt{2} \text{ A}$
 $\vec{E} = \vec{V}_L$
 $\vec{E} = 50 \sqrt{2} \text{ V}$
 $I = 50 \text{ A}$
 $Z_L = \frac{E}{I} = 20 \sqrt{2} \Omega$
 $Z_L = 28.28 \Omega$
 $L \rightarrow X_L = \omega L$
 $Z_L = \sqrt{R^2 + X_L^2} = \omega L = 28.28$
 $L = \frac{Z_L}{\omega} = \frac{28.28}{100\pi} \approx 0.09 \text{ mH}$
 $L = \frac{2.82}{314} \approx 9 \mu\text{H}$

$U_L = L \frac{di}{dt} = \frac{d(U_L)}{dt}$
 $i(t) = \frac{1}{L} \int e \sin \omega t dt = \frac{1}{L} E_m \int \sin \omega t dt = \frac{1}{L} \frac{E_m}{\omega} (-\cos \omega t) = \frac{E_m}{\omega L} \sin(\omega t - \frac{\pi}{2})$

$U_C = C \frac{dU_C}{dt}$
 $i(t) = \frac{1}{C} \int e \sin \omega t dt = \frac{1}{C} E_m \int \sin \omega t dt = \frac{1}{C} \frac{E_m}{\omega} (-\cos \omega t) = \frac{E_m}{\omega C} \sin(\omega t - \frac{\pi}{2})$

$U_C = \frac{1}{C} \int i dt$
 $i(t) = I_m \sin(\omega t + \psi)$
 $U_C = \frac{1}{C} \int I_m \sin(\omega t + \psi) dt = \frac{I_m}{\omega C} (-\cos(\omega t + \psi)) = \frac{I_m}{\omega C} \sin(\omega t + \psi - \frac{\pi}{2})$



$M(t) = U_m \sin(\omega t + \theta)$
 $\omega = 2\pi f$
 $\omega = \frac{1}{T}$
 $\omega = \frac{2\pi}{T}$

$M(t) = U_m \sin(\omega t + \theta)$
 $U = \frac{U_m}{\sqrt{2}}$
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КОМПЛЕКСНА БОЈЕВА!

