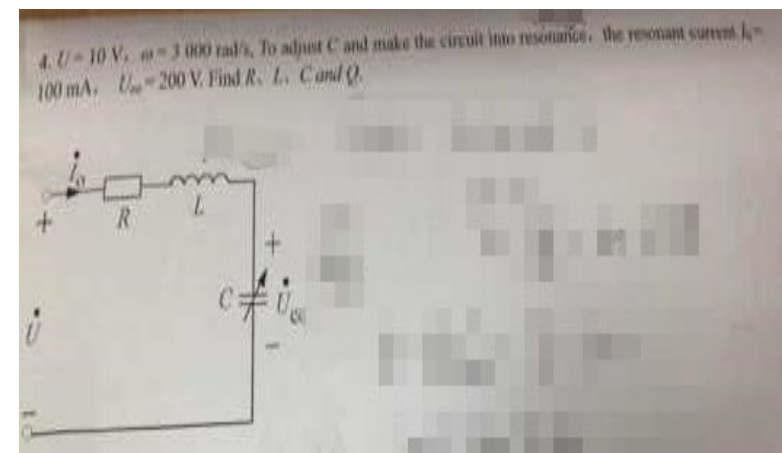
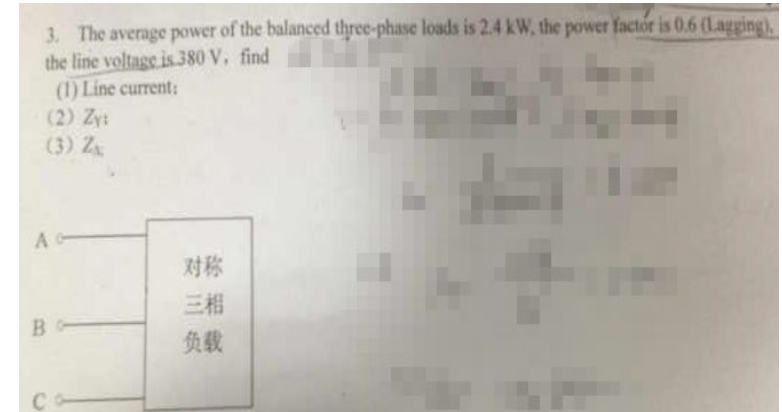
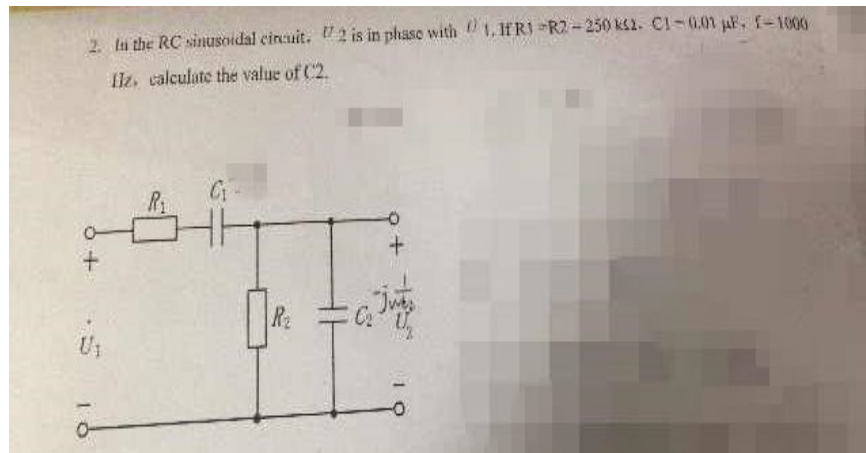
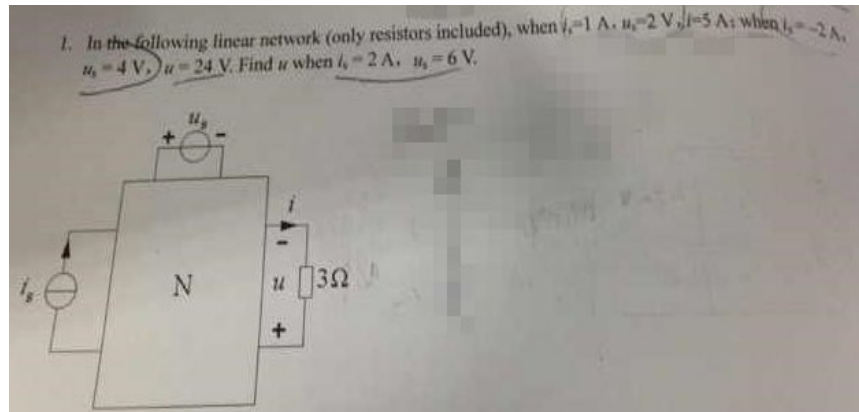
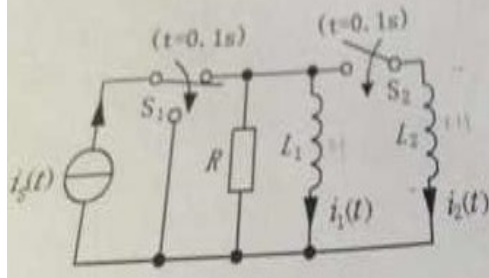


Circuit Model Test II

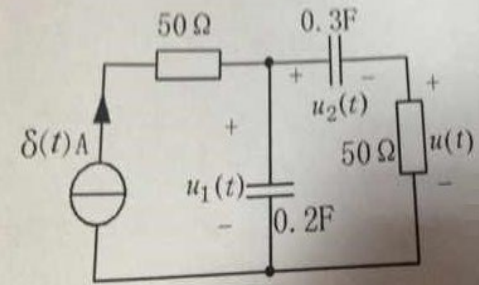
(Solve the following questions in 90 minutes).



5. In the following circuit, $i_s(t) = e^{-10t} \text{ A}$, $R = 20 \Omega$, $L_1 = 1 \text{ H}$, $L_2 = 2 \text{ H}$. Find $i_1(t)$ and $i_2(t)$.



7. Redraw the circuit in S-domain and find $u(t)$, $u_1(t)$ and $u_2(t)$



6 Calculate the maximum transfer power and the complex load.

