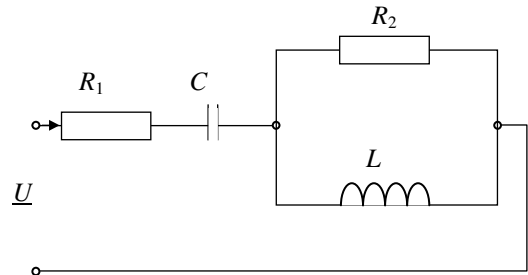
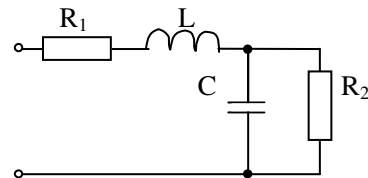


4.a domača naloga iz Osnov elektrotehnike II

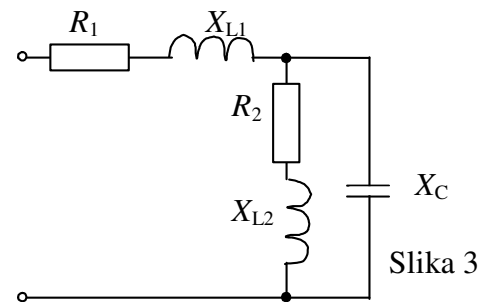
1. V vezju na sliki določite R_2 tako, da bo vezje v resonanci pri krožni frekvenci $\omega_0 = 1000 \text{ s}^{-1}$ ($L = 60 \text{ mH}$, $R_1 = 40 \text{ } \Omega$, $C = 30 \text{ } \mu\text{F}$).



2. V vezju na sliki določite R_2 tako, da bo vezje pri $\omega_0 = 1000 \text{ Hz}$ v resonanci. $L = 10 \text{ mH}$, $R_1 = 25 \text{ } \Omega$ in $C = 50 \text{ } \mu\text{F}$.



3. V vezju na sliki določite X_C tako, da bo vezje v resonanci. $X_{L1} = 10 \text{ } \Omega$, $R_1 = 8 \text{ } \Omega$, $R_2 = 10 \text{ } \Omega$ in $X_{L2} = 12 \text{ } \Omega$.



Rešitve:

1. $R_2 = 67,08 \text{ } \Omega$
2. $R_2 = 20 \text{ } \Omega$
3. $X_{C1} = 14,57 \text{ } \Omega$
 $X_{C2} = 7,61 \text{ } \Omega$