cl. 11a - S.K.9_ Rezolvañ pb - Cinc. RLC-serie in rea to1. god (2. 107) O bebiuō, consectata la osursa de rec. en Uc=24Veste parenso de C=4A. (2. 107) Cand este conoctato in re.a. la U=120V si2=50Hz, enrented este C=12A. Alati cuductouta L-a boonei? Rojalvare - avan dovo. esfuri / re.re. -@ c.c. Ue=24V., Ie=4A r.a: U=120V, N=50Hz I=12A L=? Leg. Ohm in re.re Zb= \ Rb+ XL = \ R2+ wL2 Legea Olim. in re.a. XL=WL=211)1 > (1) -> Rb = (1c) => (2) D/i = \Rightarrow Rightarrow = \(\left(\frac{1}{L}\right)^2 + \left(\frac{1}{L}\right)^2 \right)^2 ridicional $(2)^2 \rightarrow \frac{U^2}{I^2} = (\frac{U_c}{I_c})^2 + 4\pi^2 V^2 L^2 \rightarrow L^2 = (\frac{U/I}{I_c})^2 - (\frac{U/I}{I_c})^2 \rightarrow L^2 = (\frac{U/I}{I_c})^2 + 4\pi^2 V^2 L^2 \rightarrow L^2 \rightarrow L^2 = (\frac{U/I}{I_c})^2 + 4\pi^2 V^2 L^2 \rightarrow L$ $= \delta L = \frac{1}{2\pi\nu} \sqrt{\frac{|U|^2 - |Ue|^2}{|I|^2 - |Ie|^2}} = \frac{1}{2\pi \cdot 50} \cdot \sqrt{\frac{120}{|I|^2 - \frac{24}{4}|^2} - \frac{1}{100\pi}} \sqrt{10^2 - 6^2} = \frac{1}{2\pi \cdot 50} \cdot \sqrt{\frac{120}{|I|^2 - \frac{24}{4}|^2}} = \frac{1}{100\pi} \sqrt{10^2 - 6^2} = \frac{1}{2\pi \cdot 50} \cdot \sqrt{\frac{120}{|I|^2 - \frac{24}{4}|^2}} = \frac{1}{100\pi} \sqrt{10^2 - 6^2} = \frac{1}{2\pi \cdot 50} \cdot \sqrt{\frac{120}{|I|^2 - \frac{24}{4}|^2}} = \frac{1}{100\pi} \sqrt{10^2 - 6^2} = \frac{1}{100\pi} \sqrt{\frac{10^2 - 6^2}{100\pi}} = \frac{1}{100\pi} \sqrt{\frac{10^2 - 6^2}{$ $L = \frac{1}{100\pi} \sqrt{100-36} = \frac{1}{100\pi} \cdot \sqrt{64} = \frac{8}{100\pi} \approx 25,5.10^{3} H = 25,5 \text{ wh}$ < L>= H (Heury). 2,2/107) La un generator de ca. en tensiumea la borne, U=10V se conceta 20 m cinc serie format dintru condusator C=5.10/11 F si o bolonies de inductanto L= 2/17 H si reposento R=4052. Se se determine a) I-outeus aventului etu cinacit; doco frecrenta este V=100 Hz; b) frecrenta No2) la care are loc retouant a conc. RLC-serie. c) To-intens curantulai la retournto. 2) a=> factorel de califate al circuitalui. dici: (re.a) RIC-senie. U=104, C=510/17 F L= = H, R=4052 b) 1=3 (N=100Hz).

d Q=?

