= -SL+R+1 Sc S1,2 = -RC + VR2c2-4LC Bn-al-scap-Ka; W(E)=[{W(S)}=[/(LC(S-S)(S-S2)]= = 1(t) (sit = 82t) eperoqual: htt= [(W(s). 1)= [d Les(s-s)(s-s2) = LC(S1-S2) (81t-1 82t-1) Peakyen: 1) c nau. nepegam. op-4. UBZ(E)=Um(1(E)-1(E-E)) Uesc (5) = um (1-esti); Ueux = W(5). UE(5) = um 1-e" (5/5-1)(5-52) (186ex (+) = [(460x(5))=[4 Um (1 (515-9)(5-52) - = 5(5-0(5-52)) = Um (hte)-hte-61)

$$-\left(\frac{e^{\frac{9_{2}(t-T)}{5_{1}}}}{\frac{e^{\frac{9_{1}(t-T)}{5_{1}}}}{5_{1}}}\right)|_{t_{1}}^{t} = \frac{u_{m}}{L((s_{1}-s_{2}))}\left(\left(\frac{1}{s_{2}}-\frac{1}{s_{1}}-\frac{e^{s_{2}t}}{s_{2}}+\frac{e^{9_{1}t}}{s_{1}}\right)\cdot |(t)-\frac{1}{s_{2}}-\frac{e^{\frac{9_{2}(t-T)}{5_{2}}}}{s_{1}}+\frac{e^{\frac{9_{1}t}{5_{2}}}}{s_{1}}\right)\cdot |(t)-\frac{1}{s_{2}}-\frac{e^{\frac{9_{2}(t-T)}{5_{2}}}}{s_{1}}+\frac{e^{\frac{9_{1}t}{5_{2}}}}{s_{1}}+\frac{e^{\frac{9_{1}t}{5_{2}}}}{s_{1}}\right)\cdot |(t)-\frac{1}{s_{2}}-\frac{e^{\frac{9_{2}(t-T)}{5_{2}}}}{s_{1}}+\frac{e^{\frac{9_{1}t}{5_{2}}}}{s$$

$$-\left(\frac{1}{52} - \frac{1}{51} - \frac{e^{52(t-6)}}{52} + \frac{e^{51(t-6)}}{51}\right) \cdot 1(t-6)$$

$$= u_{m} \left(\frac{1(t)}{LC(S_{1}-S_{2})} \left(\frac{e^{S_{1}t}-1}{S_{1}} - \frac{e^{S_{2}t}-1}{S_{2}} \right) - \frac{1(t-t_{1})}{LC(S_{1}-S_{2})} \left(\frac{e^{S_{1}(t-t_{1})}}{S_{1}} \left(\frac{e^{S_{1}(t-t_{1})}}{S_{1}} \right) - \frac{e^{S_{2}(t-t_{1})}}{S_{2}} \right)$$

3) Unespar Disablella (Hearch) = Uex(e). htt) + Jun(t) htt-t)dt @ Ubz(0) = Um; Wex = Um(5(t) - 5(t-ti)) @ 4mh(t) + 4m [(5(t)-5(t-t)) h(t-t)dt = = Umh(t) + Um () & (t) h(t-t) dt - (8(t-t)h(t-t)dt) = = Um (h(t)-h(t-t)) (4) Ha herrogwieckyw now-mo $T=2t_1$ Ubx(t)= Um $= (1/t-2nt_1)-1(t-t_1-2nt_1)$ Usux(+)= Um & (h(+-2n+1)-h(+-t1(1+2n))) 5) Ha Zapul- it curnal Ubx(+)= Um 514(wot).1(+) = Um wo 52+w2 Aesit + Be32t Ubox (3) = W(s). Ubx(s) = Umwo

= Ksin (wot +4) + Ae + Be Szt

$$K(jwo) = \frac{1}{-w_{e}^{2}Lc + w_{e}^{2}Rcj + 1} = \frac{1}{(1-w_{e}^{2}Lc) + jw_{e}^{2}Rc} = \frac{1}{($$

$$F_{1}(s) = U_{m} w_{0}, F_{2}(s) = (s^{2} + w_{0}^{2})(s^{2}Lc + SRc + i) =$$

$$= s^{4}Lc + s^{3}Rc + s^{2}(Lcw_{0}^{2} + i) + Sw_{0}^{2}Rc + w_{0}^{2}$$

$$F_{2}(s) = 4s^{3}Lc + 3s^{3}Rc + 2s(Lcw_{0}^{2} + i) + w_{0}^{2}Rc$$

$$A = \frac{F_{1}(s_{1})}{F_{2}(s_{1})} = \frac{U_{m}w_{0}}{4s_{1}^{3}Lc + 3s_{1}^{2}Rc + 2s_{1}(Lcw_{0}^{2} + i) + w_{0}^{2}Rc}$$

$$B = \frac{F_{1}(s_{2})}{F_{2}'(s_{2})} = \frac{U_{m}w_{0}}{4s_{1}^{3}Lc + 3s_{1}^{2}Rc + 2s_{2}(Lcw_{0}^{2} + i) + w_{0}^{2}Rc}$$

$$\stackrel{?}{=} \frac{U_{m}w_{0}}{V_{0}^{3}Lc + 3s_{1}^{2}Rc + 2s_{2}(Lcw_{0}^{2} + i) + w_{0}^{2}Rc}$$