



$$\begin{cases} U_{c}(t) = \frac{i_{c}(t)}{C} = \frac{i_{c}(t)}{C} + \frac{u_{c}(t)}{C} \\ \frac{i_{c}(t)}{C} = \frac{u_{c}(t)}{C} = \frac{u_{c}(t)}{C} + \frac{i_{c}(t)}{C} \\ \frac{i_{c}(t)}{C} = \frac{u_{c}(t)}{L} = \frac{u_{c}(t)}{L} = \frac{u_{c}(t)}{L} = \frac{u_{c}(t)}{L} \\ \frac{i_{c}(t)}{L} = \frac{u_{c}(t)}{L} = \frac{u_{c}($$

of bunfragerfue cognoble touse (to) 4 0= Melun Felin + 8 Welm /2 lun + 2 de Sogue comalnerousue Yeu (t)= A, e tess(t) + A2 e sin(t) in (t) = B, e t cos(t) + B2 e sin(t) 4 tunymgennice coemalusionice (t-so U' = 0, 1' = 0 10= - Uclou + 12 ban + 2 10 = - Uchny - 12 Gum + 8 4 Com = 5 , 1600 = 3 5. uc(0+), i'(0+): uc(0+)= uc(0-)=2 12(0+)=12(0-)=0

(uc(0+)=0 1 1/ (0+)=6 6. onpegenuse A, A, B, B, B2 Suc(t) = Uchun + A, e cost + 42 e sint (u'c(t)=-A, e cost -A, e sint -A, e sint + +A e cost t=0+=> $\begin{cases} 2 = 5 + A_1 \\ 0 = -A_1 + A_2 \end{cases} = A_1 = -3, A_2 = -3$ (i)(t)=illum + B, e tost + B, e sint 1 i'(t) = - Bre cost - Bre sint - Be sint + + B, e cost (0=3+B1 16=-B,+B2 B1=-3, B2=3

uc(t) = 5 4 - 3 e cost - 3 e sint 12(t) = 3 - 3e cost + 3e tsint 7. mangen gic(t) = - uc(t) + i2(t) +i1 $u_{1}(t) = -u_{c}(t) - i_{1}(t)R_{5} + u_{7}$ ie(t) = -5 + 3 = tost + 3 = tint + 3 - 3 = tost + +3e sint +2 = 6e sint u,(t) = -5 +3e t cost +3e sint -3 +3e cost -3e sint + 8 = 6e cost 8. npolepia ic(t) = cu'e(t) = 3 = tost + 3 = sint + 3 = sint - 3 = tost = = Be sint, + u, (t) = Li', (t) = 3 e tost + 3 e tsint - 3 e tsint + 3 e tost = = 6e cost, +