تهرين سرى جمارم معارضاى اللتركي والكروسكي اشكان شيسا ١٠١٥ ١٩٩٢  $|\mu F| = \frac{1}{R}$   $|\mu F| = \frac{1}{R}$   $|\mu F| = \frac{1}{R}$   $|\lambda F| = \frac{1}{R}$ => 1x10 sr + Ks +1=0 → Δ=0 ribes:  $R = 1000 \Omega \Rightarrow S = -0000 \Rightarrow I_L(t) = e^{-0.00t}(A_1t + A_1)$ KCL:  $V = -0.00t + V = 0 \Rightarrow V = 1000$ : t < 0.00 > 0.00tKCL: V -0/0+ V =0 => V=100 V → IL (-)=0, MA, VC(-)=100 V injer:  $I_{L}(0^{\dagger}) = \frac{V_{L}(0^{\dagger})}{F} = \frac{V_{C}(0^{\dagger})}{F} = \frac{100}{F} = 10$ IL (6)=018 => A1=018, IL(6)=10 => -000X018+A1=10  $\Rightarrow I_{L}(t) = \begin{cases} 0.1^{k} \\ e^{-\Delta \cot \left( YYD t + 0.1^{k} \right)}; t > 0. \end{cases}$ 

هنگای که یه صنر از راست میلی کند: HA OIDF TONTH  $i_{L}(0^{+}) = \frac{V_{L}(0^{+})}{r} \rightarrow i_{L}''(0^{+}) = \frac{V_{L}(0^{+})}{r}$ KVL: 1+Vc (0+) - 12 (0+) - VL(0+) - Mich = (v.(.+)=1) = 0 => Vc(6+) - diL(6+)= VL(6+) → V\_((+)= 100 YO - YID= IVID > d'IL (+) = + x IVID = NIVO Sinte To VEST TILETA TILETA TILA TO THAT THE SINCE (FE i'(6+) = 1 x V (6+) -> V (6+) = i' (6+) · 1 (0+) = sint - Vc → V'(0+) = cost - Vc (0+) = cost-i (۱) هنای که ۲ به صغرازید سال ی کند: Ve (=)= Ve (=)=0, il (=)=il (=)=0 in-i=ie=tove, VL=+iL

$$|L| = \frac{Fi + 10i}{Y\Delta} \Rightarrow i_{L} = \frac{Fi + 7\Delta i}{Y\Delta}$$

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$$V_{c}(c) = V_{c}(c) = V_{c}(c)$$

TO USING KCL: Vc + IL+Ic=0

$$\Rightarrow \frac{v_c'}{R} + \frac{v_L}{L} + v_c''C = 0, \quad \text{pulses}, \quad v_c = v_L$$

$$\Rightarrow S = -\Delta \pm Y1, V9j \Rightarrow V_c(t) = e^{-\Delta t} (Acos(Y1,V4t))$$

$$V_{c}(0+) = -170$$
,  $A = 17$   
 $A = 17$ 

$$V_c(t) = e^{-\Delta t} \left( |Y \cos(Y_1 | V_0 t) - Y_1 | V_0 \sin(Y_1 | V_0 t) \right) \rightarrow V_c(t) = 0$$