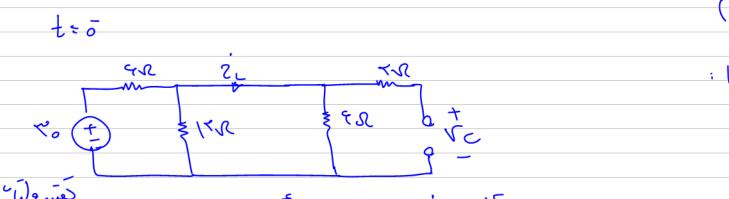
باستامه مري س عما - مواهل مرتب أول



-> V_C(0-)=17, 2L(0-)=7A -> \\ \(\cdot \) = \(\cdot \) =

tso:

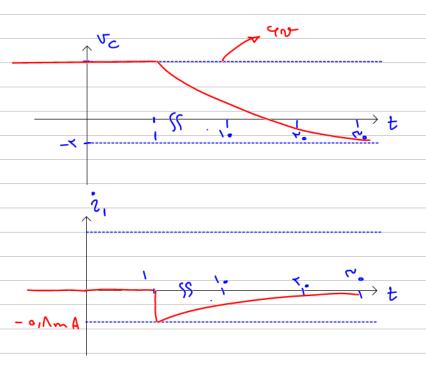
$$= r 2(1) = i_{1} - cdv_{c} = (a - re) - 4e^{-t}$$

$$= r 2(1) = a - re + 4e^{-t} + 50$$

t<1:

$$t > 1$$
:

 $v_{c} = [v_{c}(i^{+}) - v_{c}(\infty)]e + v_{c}(\infty)$
 $v_{c} = [v_{c}(i^{+}) - v_{c}(\infty)]e + v_{c}(\infty)$



2L(Co+) = 2L(Co) = 0 ? Ly(ot) = ? Ly(a) = a Vc(at 1= Vc(=)=0 die die Vidni

2c = colve = D dvc (o+) = x, \(\delta\),

= D dv (o+) = \(\delta\),

At (o+) = \(\delta\),

At (o+) = \(\delta\),

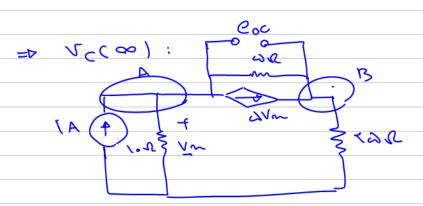
$$\frac{2}{2} + \frac{1}{2} + \frac{1}$$

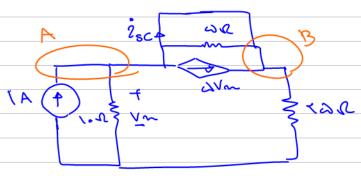
$$i_{L_{Y}(\infty)} = \frac{\Gamma(||Y| + ||Y||)}{\Gamma(||Y| + |Y||) + |Y|| + |Y||} \otimes A + \left(\frac{||Y||}{||Y|| + |Y||}\right) \cdot A = \frac{V_{\infty}}{V_{\infty}}A$$

$$V_{C}(\infty) = \frac{V_{\infty}}{V_{\infty}} + \frac{V$$

$$= \frac{1}{2} \frac{1}{2} (\infty) = \frac{-2}{2} - \frac{\sqrt{c}}{2} = \frac{-120}{20}$$

$$\sqrt{(\infty)} = 1 \times (20 - 21 + \sqrt{c}) = \frac{120}{20}$$

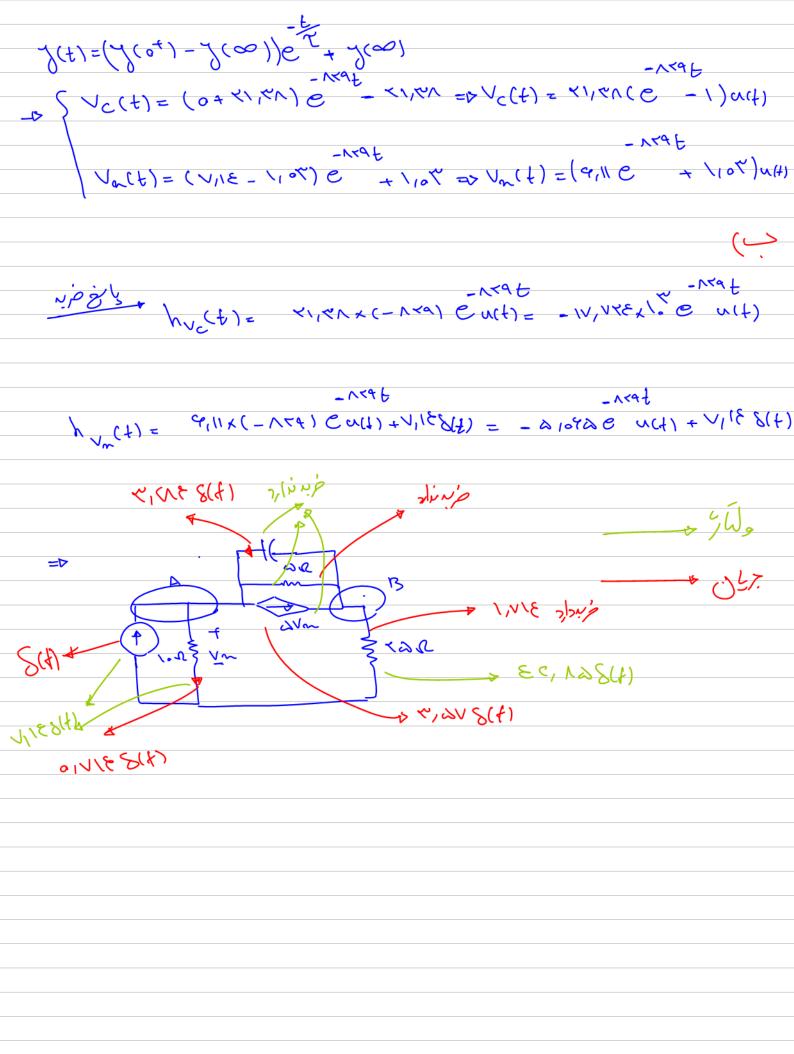




A Kd: -1+ 12+85c+ 20=0

13 kcl: - 2 vn - 2 sc +
$$\frac{\sqrt{n}}{\sqrt{a}} = 0 = 0$$
 - $\frac{1}{\sqrt{6}} \frac{1}{\sqrt{2}} = 0$

Req =
$$\frac{e_{\infty}}{i_{\infty}} = \frac{-41/44}{-40184} = 019042772 = 1,709 ms$$



$$V_{C} + V_{C} = V_{C} = 0 \text{ (kvL)} I$$

$$V_{C} + V_{C} = V_{C} + V_{C} = 0 \text{ (kvL)} I$$

$$V_{C} = V_{C} + V_{C} = 0 \text{ (kvL)} I$$

$$V_{C} = V_{C} + V_{C} V_{C$$

 $V_{c}: \frac{dV_{c}}{dt} + \frac{11}{20}V_{c} = \frac{18}{20}8(t), V_{c}(\bar{\sigma}) = 0, V_{c}(\bar{\sigma}) = ??$ tso duc + 1/2 vc= 0 = v vc= 1/2 e - 1/2 t>0 $V_{C}(+) = \frac{18}{2} = \frac{10}{2}$ $T = \sqrt{s} - \sqrt{c} = \delta(t) - \frac{1}{a}e^{-\frac{t}{a}t}$

* بالخفريد كد كستم بإيدار، قسمت دافي براد

$$V_{C}: S(t) = \frac{1}{q}(1-e^{-t}) \cdot \lambda(t) = P \cdot S' = \frac{16}{\omega} e^{-t} \lambda(t)$$

$$N(H) = \frac{1}{2} e^{-t} \frac{1}{\omega} t + \frac{1}{2} \cdot \lambda(t) = P \cdot S(t) = \frac{1}{2} e^{-t} \frac{1}{\omega} t + \frac{1}{2} \cdot \lambda(t) = P \cdot S(t) = \frac{1}{2} e^{-t} \frac{1}{\omega} t + \frac{1}{2} \cdot \lambda(t) = P \cdot S(t) = \frac{1}{2} e^{-t} \frac{1}{\omega} t + \frac{1}{2} \cdot \lambda(t) = P \cdot S(t) = \frac{1}{2} e^{-t} \frac{1}{\omega} t + \frac{1}{2} \cdot \lambda(t) = P \cdot S(t) = \frac{1}{2} e^{-t} \frac{1}{\omega} t + \frac{1}{2} \cdot \lambda(t) = P \cdot S(t) = \frac{1}{2} e^{-t} \frac{1}{2} \cdot \lambda(t) = P \cdot S(t) = P \cdot S(t$$

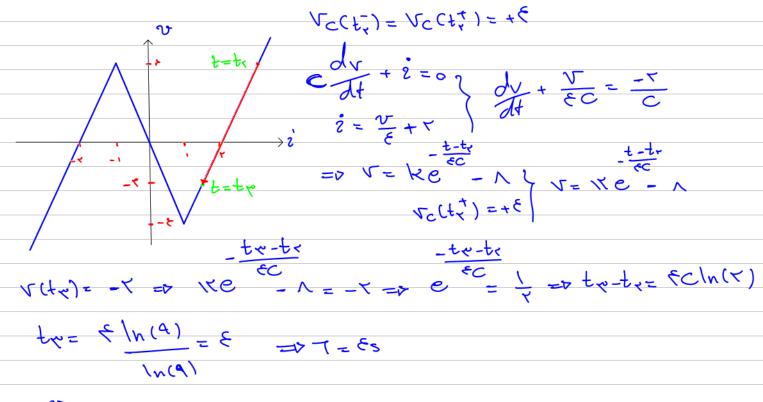
ره پاټه در هر مدار منطی تعنیر نازیان (۲۱) صرف نظر از بر تسرمدار موارد زمیر بر فتراراست. ۱) با خی حالمت صفر نسبت به ورودی منطی است. ها)(۱) کی در در ایمارا ٢) يأسخ ورودي صفر نسب به ترابط اوليه محمل اسد. J- 35 = h-8 2 = 8-5 N= dst $\Rightarrow \frac{1}{w} - \frac{\varepsilon}{w} e^{-\frac{t}{v}} = \frac{ds}{dt} - \frac{s}{w}, s(o^{-\frac{t}{v}}) = 0 \Rightarrow s(o^{-\frac{t}{v}}) = 0$ S Sh= kete Sp= A+ Be+Ce = A=1, B=1,C=-r => S(+)= ke + 1+e-te S(o+)=0=+ K+1+1-Y=0=+ k=0 =+ S(+)= 1+e-t-t-t -+ h(+)=(-e+e-)u(+) J((+)= h(+)+ z(+) =0 z(+)= (- &e + Ne +) +70

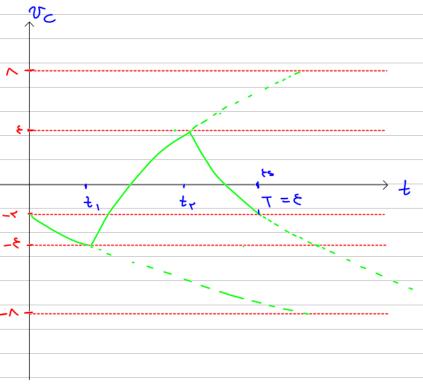
30,1H dt + 10 2 = 105 $\nabla_{8} = \nabla_{e} = \nabla_{e$ Ae - 1. Ate + 1. Ate = Ae = 4.0 e $= \lambda - \lambda^{-1}$ $= \lambda^{-1} \cdot t$ $= \lambda^$ $V_{S} = 1000 \sin (\omega t + v_{o}^{\circ})$ $\dot{z}_{L}(t) = \dot{z}_{h} + \dot{z}_{p} \longrightarrow \begin{cases} \dot{z}_{h} = ke \\ \dot{z}_{p} = A \sin (\omega t + \varphi) \end{cases}$

Aw $\cos(\omega t + \varphi) = 10^{\varepsilon} A \sin(\omega t + \varphi) = 10^{\varepsilon} \sin(\omega t + \varphi^{\circ})$ $\omega = 10^{\varepsilon} - t - 10^{\varepsilon} A (\cos(\omega t + \varphi) - \sin(\omega t + \varphi)) = 10^{\varepsilon} \sin(\omega t + \varphi^{\circ})$ $= t + \int (\cos \varphi - \sin \varphi) \cos(\omega t - (\sin \varphi + \cos \varphi) \sin(\omega t)) = \int \frac{\sqrt{\pi}}{2\pi} \cos(\omega t - \frac{1}{2} \sin(\omega t))$

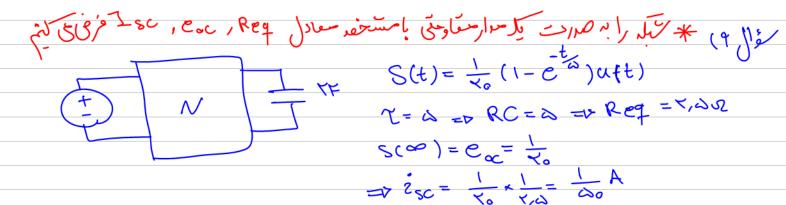
$$\begin{aligned}
\cos(\varphi - \frac{\sqrt{1 + 1}}{\sqrt{1 + 1}} & \cos(\varphi + \sin(\varphi - 1)) & \Rightarrow A = \frac{\sqrt{1 + 1}}{\sqrt{1 + 1}} \\
\sin(\varphi - \frac{\sqrt{1 + 1}}{\sqrt{1 + 1}} & \Rightarrow A = \frac{\sqrt{1 + 1}}{\sqrt{1 + 1}} & \Rightarrow A = \frac{\sqrt{1 + 1}}{\sqrt{1 + 1}} \\
&= \sum_{i=1}^{n} \frac{1 - \sqrt{n}}{\sqrt{n}} & \Rightarrow A = \frac{\sqrt{1 + 1}}{\sqrt{1 + 1}} & \Rightarrow A = \frac{\sqrt{1 + 1}}{\sqrt{1 + 1}} \\
&= \sum_{i=1}^{n} \frac{1 - \sqrt{n}}{\sqrt{n}} & \Rightarrow A = \frac{\sqrt{1 + 1}}{\sqrt{1 + 1}} & \Rightarrow A = \frac{\sqrt{1 + 1}}{\sqrt{1 + 1}} \\
&= \sum_{i=1}^{n} \frac{1 - \sqrt{n}}{\sqrt{n}} & \Rightarrow A = \frac{\sqrt{1 + 1}}{\sqrt{1 + 1}} & \Rightarrow A = \frac{\sqrt{1 + 1}}{\sqrt{1 + 1}} \\
&= \sum_{i=1}^{n} \frac{1 - \sqrt{n}}{\sqrt{n}} & \Rightarrow A = \frac{\sqrt{n}}{\sqrt{1 + 1}} & \Rightarrow A = \frac{\sqrt{n}}{\sqrt{1 + 1}} \\
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&= \sum_{i=1}^{n} \frac{1 - \sqrt{n}}{\sqrt{n}} & \Rightarrow A = \frac{\sqrt{n}}{\sqrt{n}} & \Rightarrow A = \frac{\sqrt{n}}{\sqrt{n}} & \Rightarrow A = \frac{\sqrt{n}}{\sqrt{n}} \end{aligned}$$

صَابِعِلِهِ وَلَمَارٌ خَانَ رابِهِ إِنَّ يَلْ دُورِهُ مَنَّاوِبِ بِهِ دستَى آورِم ورسم يَ كَيْمٍ. بِ را تَعَرَيب مَكال -خطم مي زئيم Vc(0-) = Vc(0+)=-Y qe ες Λ = -ε => e = = + + = + c | ν(π) => +1= E/2(=) In(9) 1-6 +1 => tx-t1= & C 1n(r) +N=E => (tx)= & => =0 tx = { / (4)





ازعام کر الحرک الله الله دیود حاعرس است. => VC, <1 Vc,= (0-Y)e+Y= x(1-e) Vc,(1)=1=> e= + = + = ln(x) => Vc,= x(1-e) =<t<t, こい(アメンシンマレC=1かのくもくも) tyti => VC,71 $Ceq^{=C_1+C_7=7F}$ $V_{ceq}(t_1) = C_1V_1(t_1) + C_7V_1(t_1) = C_1 + C_7$ $C_1 + C_7$ Vc,=Vc,= (1-1)C+1=1-e7



$$\begin{array}{c|c} & & & \\ &$$

$$\Rightarrow S(t) = (S(0^{t}) - S(\infty))e^{-t} + S(\infty)$$

$$\Rightarrow S(t) = -\frac{1}{\omega}e^{-t} + \frac{1}{\omega} = \frac{1}{\omega}(1 - e^{-t})$$

$$\Rightarrow S(t) = \frac{1}{\omega_0}(1 - e^{-\frac{1}{2}})w(t)$$

$$\Rightarrow S(t) = \frac{1}{\omega_0}(1-e^{-\frac{1}{2}})u(t)$$

$$\Rightarrow h(t) = \frac{1}{\omega_0}(1-e^{-\frac{1}{2}})u(t)$$

$$\Rightarrow h(t) = \frac{1}{\omega_0}(1-e^{-\frac{1}{2}})u(t)$$

$$\Rightarrow h(t) = \frac{1}{\omega_0}(1-e^{-\frac{1}{2}})u(t)$$

المحال ١٠)

$$\begin{aligned} & \ell_{L(e)} = \ell_{L(e)} = 0 & \Rightarrow \ell_{L} = \tau(1 - e) & = \sqrt{t} < 1 \\ & \Rightarrow \ell_{L(1)} = \sqrt{(1 - e)} = 0 & \ell_{L(1)} = \frac{\tau(e - 1)}{e} \\ & \Rightarrow \ell_{L} = \sqrt{(1 - e)} e & (xt < x \Rightarrow \ell_{L}(x^{-}) = \ell_{L}(x^{+}) = \frac{\tau(e - 1)}{e^{x}} \\ & \Rightarrow \ell_{L} = \frac{\tau(e - 1)}{e^{x}} = \frac{\tau(t - e)}{e^{x}} & = \ell_{L}(x^{-}) = \ell_{L}(x^{+}) = \frac{\tau(e^{-} - e^{-} + e^{-} - 1)}{e^{x}} \\ & \Rightarrow \ell_{L} = \frac{\tau(e - 1)}{e^{x}} = \frac{\tau(e^{-} - e^{-} + e^{-} - 1)}{e^{x}} \\ & \Rightarrow \ell_{L} = \frac{\tau(e^{-} - e^{-} + e^{-} - 1)}{e^{x}} \\ & = \ell_{L}(e) = \frac{\tau(e^{-} - e^{-} + e^{-} - 1)}{e^{x}} \\ & = \ell_{L}(e) = \frac{\tau(e^{-} - e^{-} - e^{-} - 1)}{e^{x}} \\ & = \ell_{L}(e) = \frac{\tau(e^{-} - e^{-} - e^{-} - 1)}{e^{x}} \\ & = \ell_{L}(e) = \frac{\tau(e^{-} - e^{-} - e^{-} - 1)}{e^{x}} \\ & = \ell_{L}(e) = \frac{\tau(e^{-} - e^{-} - e^{-} - 1)}{e^{x}} \\ & = \ell_{L}(e) = \frac{\tau(e^{-} - e^{-} - e^{-} - 1)}{e^{x}} \\ & = \ell_{L}(e) = \frac{\tau(e^{-} - e^{-} - e^{-} - 1)}{e^{x}} \\ & = \ell_{L}(e) = \frac{\tau(e^{-} - e^{-} - e^{-} - 1)}{e^{x}} \\ & = \ell_{L}(e) = \frac{\tau(e^{-} - e^{-} - e^{-} - 1)}{e^{x}} \\ & = \ell_{L}(e) = \frac{\tau(e^{-} - e^{-} - e^{-} - 1)}{e^{x}} \\ & = \ell_{L}(e) = \frac{\tau(e^{-} - e^{-} - e^{-} - 1)}{e^{x}} \\ & = \ell_{L}(e) = \frac{\tau(e^{-} - e^{-} - e^{-} - 1)}{e^{x}} \\ & = \ell_{L}(e) =$$

