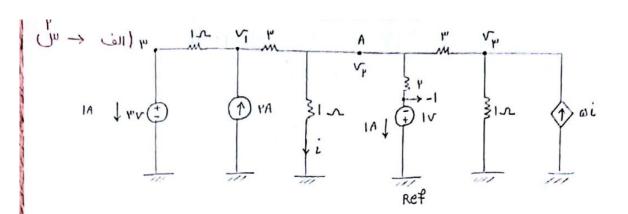


$$\begin{array}{c} \frac{10}{10} \\ -\frac{10}{10} \\ -\frac{10}{10}$$

$$-V + \frac{V_1}{W} + \frac{V_1}{10} - \frac{V_0}{10} - \frac{V_1}{10} + \frac{V_1}{10} + \frac{V_1}{VK} - \frac{10}{VK} = 0 \longrightarrow \frac{9V_1}{VK} = \frac{90}{1V} \longrightarrow V = \frac{110}{9} V$$

$$-V + \frac{V_1}{\mu} + \frac{V_1 - \mu_0 - V_1}{10} + \frac{V_1 - 10}{10} = 0 \longrightarrow V_1 = \frac{400}{0V} V$$

$$i=?$$
  $\rightarrow v=iR$   $\rightarrow \frac{v_1-v_0}{10} = \frac{400}{000} = \frac{400}{000} A$ 

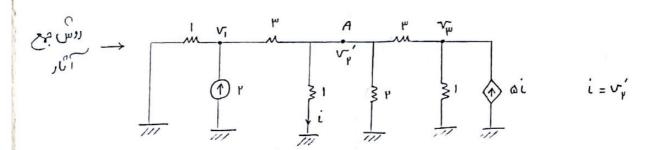


$$\widetilde{\mathcal{L}} = \frac{\nabla_{\gamma} - \nabla_{\delta}}{1} = \nabla_{\gamma}$$

$$KCL V_{1} \rightarrow \frac{1}{V_{1}-\mu} + \frac{\mu}{V_{1}-V_{F}} - V = 0 \rightarrow \frac{\mu}{K}V_{1} - \frac{\mu}{V_{F}} = 0 \rightarrow KV_{1}-V_{F} = 10$$

$$\operatorname{KcL} \stackrel{\sqrt{r}}{\vee} \rightarrow \stackrel{\sqrt{r}}{\vee} + \frac{\frac{1}{\sqrt{r}+1}}{r} + \frac{\frac{1}{\sqrt{r}-\sqrt{r}}}{r} + \frac{\frac{1}{\sqrt{r}-\sqrt{r}}}{r} = 0 \longrightarrow \frac{1}{\sqrt{r}} \stackrel{\sqrt{r}}{\vee} - \frac{\sqrt{r}}{r} - \frac{\frac{1}{r}}{r} - \frac{1}{r} \longrightarrow 0$$

$$=> \bigvee_{1}= \bigvee_{1} \bigvee_{1}= \bigvee_{1}= \bigvee_{1} \bigvee_{1}= \bigvee_{1} \bigvee_{1}= \bigvee_{1}= \bigvee_{1} \bigvee_{1}= \bigvee_$$



$$KCL V_{1} \longrightarrow \frac{V_{1}-V_{1}'}{\mu} + V_{1}-V = 0 \longrightarrow V_{1}-V_{1}' = Y$$

$$\mathsf{KCL} \ \mathcal{V}_{\mathsf{p}}' \longrightarrow \frac{\mathcal{V}_{\mathsf{p}}' - \mathcal{V}_{\mathsf{1}}}{\mathsf{p}} + \mathcal{V}_{\mathsf{p}}' + \frac{\mathcal{V}_{\mathsf{p}} - \mathcal{V}_{\mathsf{p}}}{\mathsf{p}} + \frac{\mathcal{V}_{\mathsf{p}}'}{\mathsf{p}} = 0 \longrightarrow \frac{\mathsf{1P}}{\mathsf{p}} \ \mathcal{V}_{\mathsf{p}}' - \frac{\mathcal{V}_{\mathsf{p}}}{\mathsf{p}} - \frac{\mathcal{V}_{\mathsf{p}}}{\mathsf{p}} = 0$$

ر الات الالت

$$\text{PV } \text{SW} = \frac{1}{4} \text{VV} - \frac{1}{4} + \frac{$$

$$|V| \stackrel{\circ}{\text{NU}} \stackrel{\circ}{\text{NU}} \rightarrow \frac{\sqrt{\mu}}{\mu} + \sqrt{\mu} + \frac{\sqrt{\mu}}{\mu} + \frac{\sqrt{\mu}}{\mu} + \frac{\sqrt{\mu}}{\mu} = 0 \rightarrow \frac{\mu}{\mu} \stackrel{\circ}{\text{NU}} \stackrel{\circ}{\text{NU}}$$

$$Kcl V_{\mu} \rightarrow -aV_{\mu}^{"} + V_{\mu} + \frac{V_{\mu} - V_{\mu}^{"}}{\mu} = 0 \rightarrow -\frac{19}{\mu} V_{\mu}^{"} + \frac{\kappa}{\mu} V_{\mu} = 0$$

$$V_{A} = V_{P} = V_{P}' + V_{P}'' + V_{P}'' = 0,440 + 1 - 0,1440 = 1$$

$$P(V) = Vi = WXI = WW$$

$$P(V) = Vi = WXI = WW$$

$$P(V) = \frac{(V_1 - W)^{V}}{I} = IW$$

$$P(W) = \frac{(V_1 - V_0)^{V}}{I} = IW$$

$$P(V) = \frac{(V_1 - V_0)^{V}}{I} = IW$$

$$P(V) = Vi = -IXI = -IW$$

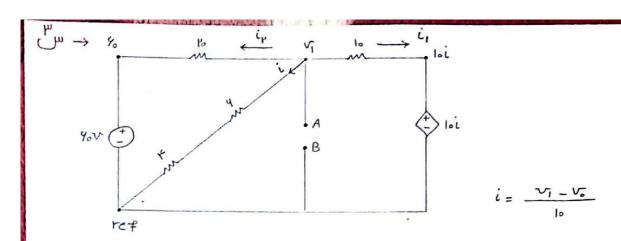
$$P(W) = \frac{(V_1 - V_0)^{V}}{I} = WW$$

$$P(W) = \frac{(V_1 - V_0)^{V}}{I} = WW$$

$$P(W) = Vi = -IXI = -IW$$

$$P(W) = \frac{(V_1 - V_0)^{V}}{I} = WW$$

$$V = iR \rightarrow V_{r+1} = ri \rightarrow i = 1A$$



(Ib) 
$$V_1 \rightarrow V_1 - 10i \rightarrow V_1 - 10i \rightarrow V_1 - 10i \rightarrow V_0 \rightarrow V_1 - V_1 - V_0 \rightarrow V_1 - V_1 -$$

$$\frac{\sqrt{1}}{10} - \frac{\sqrt{1}}{10} + \frac{\sqrt{1}}{10} - \frac{1}{10} + \frac{\sqrt{1}}{10} = 0 \longrightarrow \frac{1}{10} \sqrt{1} = \frac{1}{10} \longrightarrow \sqrt{1} = \frac{1}{10} \sqrt{1}$$

$$\frac{7}{\sqrt{5}} \qquad \frac{7}{\sqrt{5}} \qquad \frac{1}{\sqrt{5}} \qquad \frac{$$

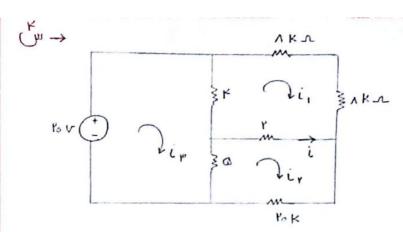
$$V_T = \frac{V_o}{\mu} I + V_o \longrightarrow R_{Th} = \frac{V_o}{\mu}$$

$$P(loi) = Vi_1 = loi Xo = oW$$

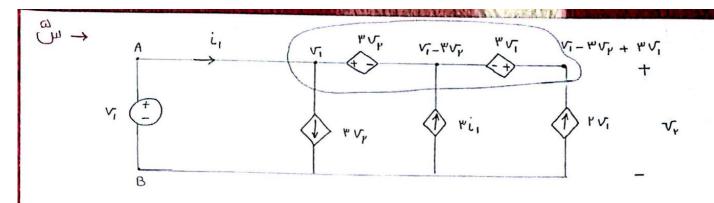
$$i_{Y} = \frac{V_1 - 4_0}{r_0} = \frac{r_0 - 4_0}{r_0} = - r A$$

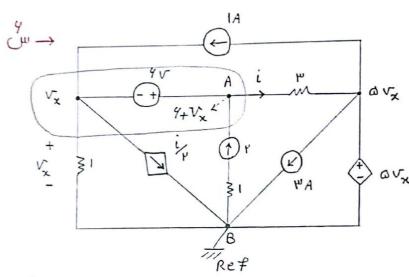
$$i_{Y} = \frac{V_1 - 4_0}{r_0} = \frac{r_0 - 4_0}{r_0} = - r A$$

$$i_{Y} = \frac{V_1 - 4_0}{r_0} = \frac{r_0 - 4_0}{r_0} = - r A$$



(الف





(الف

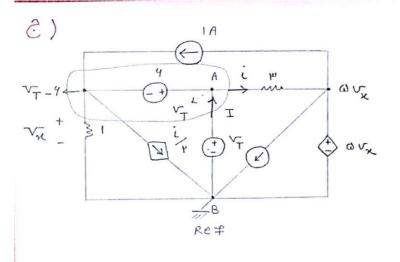
$$i = \frac{4 + \sqrt{x} - a\sqrt{x}}{\mu} \longrightarrow i = 1 - \frac{k}{\mu} \sqrt{x}$$

$$\not x \rightarrow \nabla_{x} + \frac{\mu}{\mu} \left( \gamma - \frac{\mu}{\mu} \nabla_{x} \right) = \mu \rightarrow \nabla_{x} + \mu - \gamma \nabla_{x} = \mu \rightarrow \nabla_{x} = 0 \nabla \left( -\frac{\mu}{\mu} \nabla_{x} \right) = \mu \rightarrow \nabla_{x} + \mu - \gamma \nabla_{x} = \mu \rightarrow \nabla_{x} = 0 \nabla \left( -\frac{\mu}{\mu} \nabla_{x} \right) = \mu \rightarrow \nabla_{x} + \mu - \gamma \nabla_{x} = \mu \rightarrow \nabla_{x} = 0 \nabla \left( -\frac{\mu}{\mu} \nabla_{x} \right) = \mu \rightarrow \nabla_{x} + \mu - \gamma \nabla_{x} = \mu \rightarrow \nabla_{x} = 0 \nabla \left( -\frac{\mu}{\mu} \nabla_{x} \right) = \mu \rightarrow \nabla_{x} + \mu - \gamma \nabla_{x} = \mu \rightarrow \nabla_{x} = 0 \nabla \left( -\frac{\mu}{\mu} \nabla_{x} \right) = \mu \rightarrow \nabla_{x} + \mu - \gamma \nabla_{x} = \mu \rightarrow \nabla_{x} = 0 \nabla \nabla_{x} = 0$$

$$\nabla_{A} = 9 + \nabla_{x} = 9$$

$$\rightarrow \nabla_{AB} = \nabla_{A} - \nabla_{B}' = 9$$

$$\nabla_{B} = 0$$

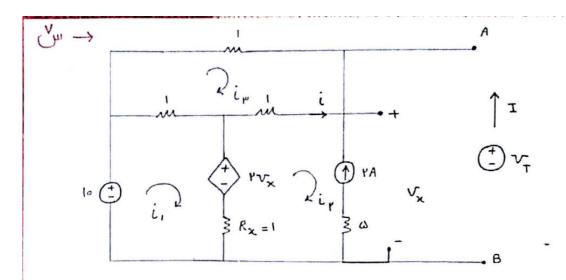


$$i = \frac{\nabla_{T} - \alpha \nabla_{Z}}{\mu} = \frac{\nabla_{T} - \alpha \nabla_{T} + \mu_{\sigma}}{\mu} = \frac{-\kappa \nabla_{T} + \mu_{\sigma}}{\mu}$$

- Sould By The mile of the Man Sould By The Sould Be to Sure of the Sould By The So



س مت جریان I راباید برعس لنیم تا مدا= ۸ سود.



نام) میں 
$$\rightarrow$$
 KVL نہے نہ + (نہ - نہ) + (نہ - ن، ) =  $\rightarrow$  ۳ نہ - ن، - نہ =  $\rightarrow$   $i_{Y} = - YA$ 

$$\star \rightarrow \nu i_1 - i_{\mu} + \nu (1 + \nu i_{\mu} - i_1) = \Lambda \longrightarrow \nu i_{\mu} = -19 \longrightarrow i_{\mu} = \frac{-19}{\mu} A$$

$$i=? \rightarrow i=i_{V}-i_{W}=-V+\frac{19}{W}=\frac{10}{W}A.$$

$$\dot{}$$
  $\dot{}$   $\dot{}$ 

$$( - \frac{1}{4} + \frac{1}{4} - \frac{1}{4} -$$