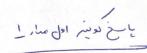
الطب



#1
$$5^{\nu} \stackrel{\downarrow}{\leftarrow} 3_{13} \stackrel{\downarrow}{\searrow} 3_{1x}$$

$$kVL \text{ in } [...5 + 2([.-1_2]) + 3([.-1_3]) = 0$$
  
=>  $[5[.-2[_2 - 3[_3 = 5]]]$  (1)

$$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \end{array}\end{array}\end{array} \begin{array}{c} \begin{array}{c} \\ \\ \\ \end{array}\end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array}\end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array}\end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\$$

#2 VA 1 VO 3A VC 4 VO 3ix 1 Vo 2iy 32

$$\begin{cases} V_{A} = 3i_{X} = 3V_{B} & (1) \\ V_{C} = V_{O} = 4 & (II) \end{cases}$$

KCL in VB:  $\frac{V_{8-0}}{1} + \frac{V_{8-V_A}}{1} + \frac{V_{8-V_C}}{1} + 3 = 0 \xrightarrow{V_{A-3V_B}} V_{C=3V}$ 

(II): Vo: Vc-4 = 3-4 = -10

KCL in  $V_{c}$ ;  $V_{0}$ :  $-3 - 2iy + \frac{V_{c} - V_{B}}{1} + \frac{V_{D-0}}{2} = 0 \xrightarrow{iy = -\frac{V_{D}}{2}} \frac{3}{2} V_{D} = V_{B} = -\frac{3}{2}$ (I)  $V_{A^{2}} = 3 \left(\frac{-3}{2}\right) = \frac{-9}{2}$