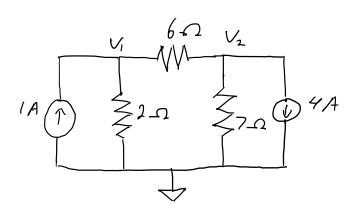
M. Hasyim Abdillah P. 1601(91095 TT-43-11



$$\sum_{i=0}^{1=0} \frac{V_{i} - V_{2}}{6} + \frac{V_{1}}{2} - 1 = 0$$

$$\frac{V_{1} - V_{2}}{6} + \frac{V_{1}}{2} = 1$$

$$\frac{V_{1} - V_{2}}{6} + \frac{3}{3} = 6$$

$$4V_{1} - V_{2} = 6$$

$$(1)$$

$$\sum_{i=0}^{5} \frac{1}{6} = 0$$

$$\frac{V_2 - V_1}{6} + \frac{V_2}{7} + 4 = 0$$

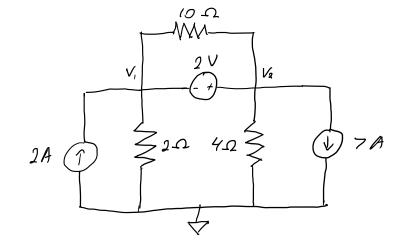
$$\frac{V_3 - V_1}{6} + \frac{V_3}{7} = -4$$

$$7(V_2 - V_1) + 6 V_2 = -16 P$$

$$13 V_2 - 7 V_1 = -16 P = -(2)$$

$$4V_1 - V_2 = 6$$
 $| \times 13 | 52 V_1 - 13 V_2 = 70$
 $| \times 13 | 52 V_1 - 13 V_2 = 70$
 $| \times 1 | -7V_1 + 13 V_2 = -160 | + 13$

$$4V_{1} - V_{2} = 6$$
 $4(-2) - V_{2} = 6$
 $-P - V_{2} = 6$
 $V_{2} = -14$



$$V_2 - V_1 = 2V$$

$$V_2 = V_1 + 2$$

$$\sum_{i=0}^{V_{i}-V_{2}} \frac{V_{i}}{\omega} + \frac{V_{i}}{a} - 2 = 0$$

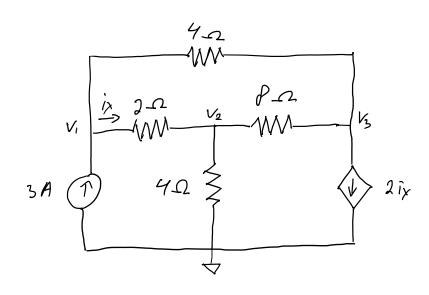
$$\frac{V_{i}-(V_{i}+2)}{\omega} + \frac{V_{i}}{2} = 2$$

$$(-2) + 5V_{i} = 20$$

$$5V_{i} = 22$$

$$V_{i} = 4,4 V$$

$$V_2 - V_1 = 2$$
 $V_2 - 4,4 = 2$
 $V_2 = 6,4 V$



$$\sum_{i=0}^{1=0} \frac{V_{i} - V_{2}}{2} + \frac{V_{i} - V_{3}}{4} - 3 = 0$$

$$\frac{V_{i} - V_{2}}{2} + \frac{V_{i} - V_{3}}{4} = 3$$

$$2(V_{i} - V_{2}) + V_{i} - V_{3} = 12$$

$$2V_{i} - 2V_{2} - V_{3} = 12$$

$$\sum_{i=0}^{\infty} \frac{V_{2} - V_{1}}{2} + \frac{V_{2} - V_{3}}{p} + \frac{V_{3}}{4} = 0$$

$$\frac{V(v_{2} - V_{1})}{2} + \frac{V_{2} - V_{3}}{2} + \frac{2V_{2}}{2} = 0$$

$$-\frac{4V_{1} + 7V_{2} - V_{3}}{2} = 0$$

$$\frac{V_{3} - V_{2}}{P} + \frac{V_{5} - V_{1}}{4} + 2i_{x} = 0$$

$$\frac{V_{5} - V_{2}}{P} + \frac{V_{5} - V_{1}}{4} + 2i_{x} = 0$$

$$V_{5} - V_{2}}{P} + 2(V_{5} - V_{1}) + 2(V_{1} - V_{2}) = 0$$

$$V_{5} - V_{2} + 2(V_{5} - V_{1}) + 2(V_{1} - V_{2}) = 0$$

$$V_{7} - 2V_{7} + 3V_{7} + 2V_{7} = 0$$

$$V_{7} - 2V_{7} + 2V_{7} + 2V_{7} = 0$$

$$3V_{1} - 2V_{2} - V_{3} = 12$$

$$-4V_{1} + 7V_{2} - V_{3} = 0 \Rightarrow \begin{vmatrix} 3 - 2 - 1 & 12 \\ -4 & 7 & -1 & 0 \end{vmatrix} - b_{3} + b_{1} \begin{vmatrix} 1 & 1 & -2 & 12 \\ 2 & 4 & 7 & -1 & 0 \end{vmatrix}$$

$$2V_{1} - 3V_{2} + V_{3} = 0 \Rightarrow \begin{vmatrix} 3 - 2 - 1 & 12 \\ -4 & 7 & -1 & 0 \end{vmatrix} \sim \begin{vmatrix} 2 & b_{3} + b_{4} \\ 2 & -3 & 1 & 0 \end{vmatrix}$$

$$\begin{vmatrix}
1 & 1 & -2 & 12 \\
0 & 1 & 1 & 0 \\
2 & -3 & 1 & 0
\end{vmatrix}$$

$$\begin{vmatrix}
-2b_1 + b_3 \\
0 & 1 & 1 & 0 \\
0 & -5 & 5 & -24
\end{vmatrix}$$

$$\begin{vmatrix}
-b_2 + b_1 \\
5b_2 + b_3 \\
0 & 1 & 1 & 0 \\
0 & 0 & 0 & -24
\end{vmatrix}$$

$$\begin{vmatrix} 1 & 0 & -3 & 12 \\ 0 & 1 & 1 & 0 \\ 0 & 0 & 1 & -2,4 \end{vmatrix} - b_3 + b_3 \begin{vmatrix} 1 & 0 & 0 & 4, P \\ 3b_3 + b_4 & 0 & 1 & 0 & 2,4 \end{vmatrix} = > V_2 = 2,4 V$$

$$\begin{vmatrix} 0 & 0 & 1 & -2,4 \\ 0 & 0 & 1 & -2,4 \end{vmatrix} \sim \begin{vmatrix} 0 & 0 & 1 & -2,4 \\ 0 & 0 & 1 & -2,4 \end{vmatrix}$$