Solve for V3/V, using directed graph.

$$\delta_{11} = 4.43 + 4243$$

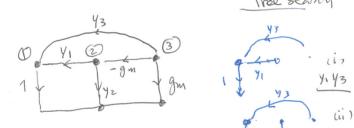
$$-\delta_{13} = (-1) = -4.9m - 42.9m - 42.9m - 42.9m$$

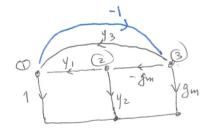
$$= -4.9m$$

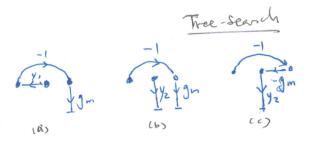
$$-4.3m = 8.1 - 8.13 = 4.43 + 4243 - 4.9m$$

$$V_{2}$$

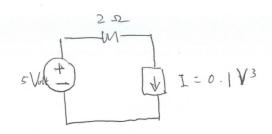
$$\frac{V_3}{V_1} = \frac{\triangle_{13}}{\triangle_{11}} = \frac{y_1 y_3 + y_2 y_3 - y_1 g_{10}}{y_1 y_3 + y_2 y_3}$$







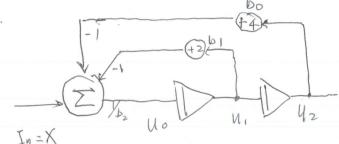
Troe search



$$I = 0.1V^{3} \Rightarrow V^{3} = 10I$$

Given the estimate of V equal to 2 volt $\Rightarrow V^{m} = 2$
 $g^{m} = \frac{dI}{dV} = 0.3V^{2} = 0.3(V^{m})^{2} = 1.2$
 $\tilde{z}^{m} = 0.1(V^{m})^{3} = 0.8$

$$V^{M+1} = \frac{V_8 - R(i^M - g^M V^M)}{1 + R \cdot g^M} = \frac{5 - 2(0.8 - 1.2 \times 2)}{1 + 2 \times 1.2} = \frac{8.2}{3.4} = \frac{2.4177}{1 + 2 \times 1.2}$$



Ans.
$$P_{x_1} = 1$$
, $U_{x_1, m} = 1$, $U_{x_1, m} = 0.5$, $I_{x_1} = X_{x_1, m} = 3$, $T = 1$. $I_{x_1} = 1$. $I_{x_1, m} = 1$. $I_{x_1,$

$$U_{0,mH} = I_{n} - \sum_{k=1}^{2} \int_{b_{2} \cdot k} \left[U_{k,m} + \sum_{j=1}^{k-1} (T) \cdot U_{k-1,m} \right]$$

$$= I_{n} - \sum_{k=1}^{2} \int_{b_{2} \cdot k} \left[U_{k,m} + \sum_{j=1}^{k-1} (T) \cdot U_{k-1,m} \right]$$

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$$= I_{n} - \sum_{k=1}^{2} \int_{b_{2} \cdot k} \left[U_{k,m} + \sum_{k=1}^{k-1} (T) \cdot U_{k-1,m} \right]$$

$$= I_{n} - \sum_{k$$

$$U_{1,m+1} = U_{1,m} + T \cdot U_{0,m+1} = 1 - \frac{5}{7} = \frac{2}{7} = 0.2857$$

$$U_{2,m+1} = U_{2,m} + T \cdot U_{1,m+1} = 0.5 + \frac{2}{7} = \frac{5.5}{7} = 0.7837$$