



Choose se ference node which have the most node

Inode

$$V_{1}\left(\frac{1}{10} + \frac{1}{15} + \frac{1}{5}\right) + V_{2}\left(-\frac{1}{5}\right) = 15$$

$$V_{1}\left(-\frac{1}{5}\right) + V_{2}\left(\frac{1}{5} + \frac{1}{2}\right) = -5$$

$$V_{1}\left(\frac{1}{5}\right) + V_{2}\left(\frac{1}{5} + \frac{1}{2}\right) = -5$$

$$V_{1}\left(\frac{1}{5}\right) + V_{2}\left(\frac{1}{5}\right) = 15$$

$$V_{2}\left(\frac{1}{5} + \frac{1}{2}\right) = -5$$

$$V_{1}\left(\frac{1}{5}\right) + V_{2}\left(\frac{1}{5}\right) = 15$$

$$V_{2}\left(\frac{1}{5}\right) + V_{2}\left(\frac{1}{5}\right) = 15$$

$$V_{3}\left(\frac{1}{5}\right) + V_{3}\left(\frac{1}{5}\right) = 15$$

Choose reference mode vehich indude 2 sources (or more)

>> Boxil

$$\int_{1}^{\infty} \frac{100 - v_{2}}{2}$$







6		

$$\int_{0}^{\sqrt{2}} \left(\frac{1}{10} + \frac{1}{40} + \frac{1}{20}\right) + \hat{v}_{0} = 1$$

$$\int_{0}^{\sqrt{2}} \left(\frac{1}{10} + \frac{1}{40}\right) + \hat{v}_{0} \left(\frac{20}{10}\right) = \frac{34}{3}$$

smallest loop

Mush L

nesh 2

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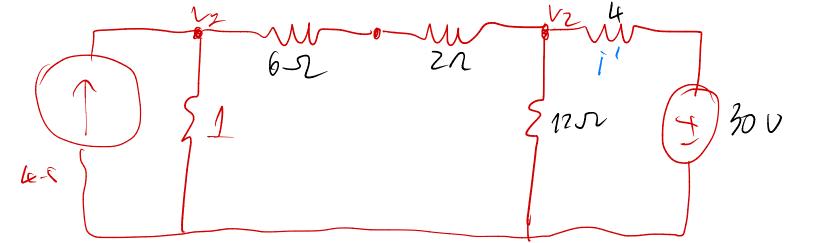
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ic=-46H

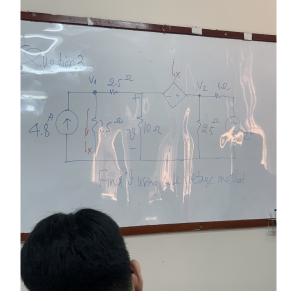
20ia-i0)2

= 6





$$i' = \frac{Vz^{-40}}{4} = 20$$
 $P_{40} = \pm i' \times 30 = 20$ 



$$v_{x} = V_{2} - V = \frac{V_{1}}{7.5}$$

Question 4:  $i_{c} = 5 i_{g}$ Mush A:  $-25 + 6(i_{a} - i_{b}) + 8(i_{a} - 5 i_{g})$ Mush b:  $2v_{h} + 8(i_{b} - 5 i_{g}) + 6(i_{b} - i_{u})$   $i_{g} = i_{a}$