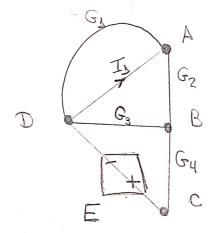
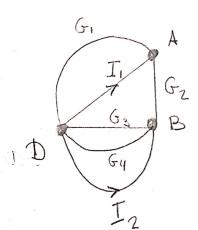


grap de petencal



5 per mo 5: 0 + 0



$$\frac{e_{c}-e_{b}=E}{|e_{c}-e_{b}=20I_{n}|}$$

$$T_{\Delta} = \Delta 0,6 \sqrt{2}^{\circ} A$$
 $G_{\Delta} = 1/20 S$
 $G_{3} = \frac{1}{2+3^{2}} S$
 $G_{4} = \frac{1}{5} S$
 $G_{4} = \frac{1}{5} S$

$$\mathcal{X} = Z.I$$

$$\mathcal{X} = \frac{1}{G}.I \implies G.\mathcal{X} = \overline{L} \implies \overline{G}.G.\mathcal{X} = \overline{G}.\overline{I}$$

$$\mathcal{X} = G.\overline{I}$$

$$\begin{bmatrix} e_{A} \\ e_{B} \\ = -G_{2} \\ -G_{3} \\ -G_{4} \end{bmatrix} = \begin{bmatrix} G_{1}+G_{2} & -G_{2} \\ -G_{2} & (G_{2}+G_{3}+G_{4}) & -(G_{3}+G_{4}) \\ -G_{5} & -(G_{3}+G_{4}) & (G_{1}+G_{3}+G_{4}) \end{bmatrix} = \begin{bmatrix} I_{2} \\ I_{2} \\ -I_{1}+I_{2} \end{bmatrix}$$

$$dI_2 = 20I_nG_4$$

 $I_n = (e_A - e_B).G_2$

$$T_2 = 20.(e_A - e_B)G_2.G_4$$

= $20G_2G_4e_A - 20G_2G_4e_B$

$$T = \begin{vmatrix} -I_1 \\ ke_A - ke_B \\ -I_1 - ke_A + ke_B \end{vmatrix}$$

$$\begin{bmatrix} e_{A} \\ e_{B} \\ = \\ -G_{2} - K \\ (G_{2} + G_{3} + G_{4}) + K \\ -(G_{3} + G_{4}) - K \\ (G_{1} + G_{3} + G_{4}) \end{bmatrix} \begin{bmatrix} I_{\Delta} \\ I_{\Delta} \end{bmatrix}$$

$$K = 20 G_{2}G_{4} = 0.8 - 32.6 G_{4}$$

$$K = 20 G_{2}G_{4} = 0.8 - 32.6 G_{4}$$

$$G_{3} - 30.4 - 0.2 + 30.4 - 0.2 - 30.2 G_{4}$$

$$G_{3} - 30.4 - 0.2 + 32.4 - 0.3 + 30.2 G_{4}$$

$$G_{3} - 30.4 - 0.2 + 32.4 - 0.2 - 30.2 G_{4}$$

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$$G_{3} - 30.4 - 3.2 + 32.4 - 0.2 - 30.2 G_{4}$$

$$G_{3} - 30.4 - 3.2 + 32.4 - 0.2 - 30.2 G_{4}$$

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$$G_{3} - 30.4 - 3.2 + 32.4 - 0.2 - 30.2 G_{4}$$

$$G_{4} - 30.4 - 3.2 + 32.4 - 0.2 G_{4}$$

$$G_{5} - 30.4 - 3.2 + 32.4 - 0.2 G_{5}$$

$$G_{7} - 30.4 - 3.2 + 32.4 - 0.2 G_{7}$$

$$G_{7} - 30.4 - 3.2 + 32.4 - 0.2 G_{7}$$

$$G_{7} - 30.4 - 3.2 + 32.4 - 0.2 G_{7}$$

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$$G_{7} - 30.4 - 3.2 + 32.4 - 0.2 G_{7}$$

$$G_{7} - 30.4 - 3.2 + 32.4 - 0.2 G_{7}$$

$$G_{7} - 30.4 - 3.2 +$$

$$e_{A} = -0,0231 + j_{6},40.$$
 V
 $e_{B} = -0,4231 - j_{2},799$ V
 $e_{B} = -68,423 - j_{2}3,2006$ V
 $e_{D} = -68,423 - j_{2}3,2006$ V

$$T_{a} = (e_{a} - e_{b}) \cdot G_{\Delta} = 6,84 - 31,68 \text{ A}$$

$$e_{c} - e_{D} = 20.T_{n}$$

$$e_{c} = 20T_{n} + e_{D} = 6,776 + 356,8 \text{ V}$$

$$T_{b} = (e_{b} - e_{c}) \cdot G_{q} = -4,44 - 314,92 \text{ A}$$

$$T_{c} = (e_{b} - e_{D}) \cdot G_{3} = 5,2 + 313,6 \text{ A}$$

$$T_{c} = (e_{b} - e_{D}) \cdot G_{3} = 5,2 + 313,6 \text{ A}$$