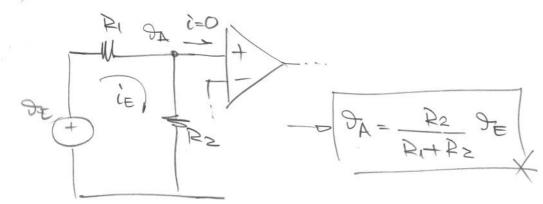
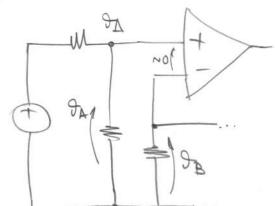
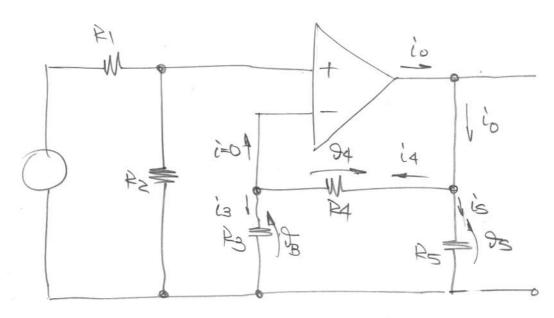


a) D_=?



p) 38=3





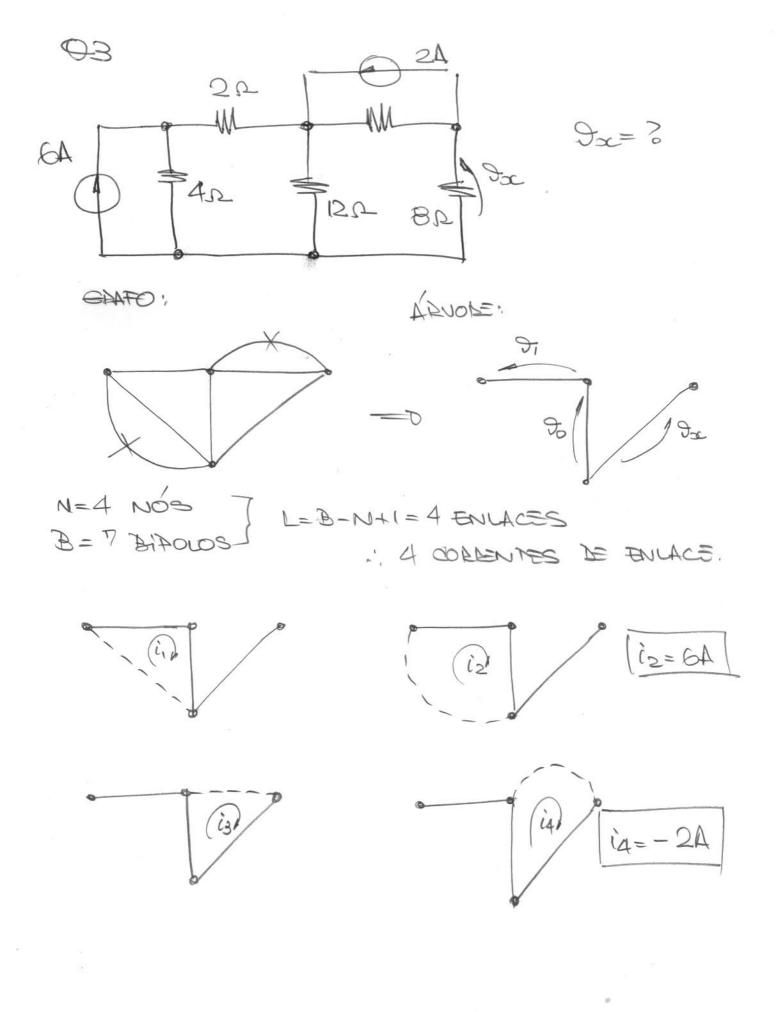
DO CIRCUITO, TEMOS. $i_0 = i_4 + i_5$.

COMO $i_8 = i_4$, ENTAD $J_8 + J_4 = J_5$ E $i_4 = J_5$ $k_8 + k_4$

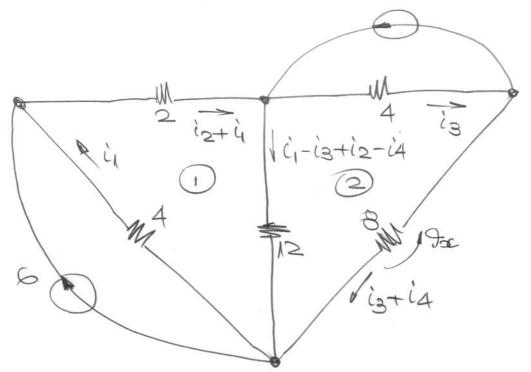
ALÉM 81880, 1/8 = 85/25. FORTAND,

$$\hat{c}_0 = \left(\frac{1}{R_3 + R_4} + \frac{1}{R_5}\right) \left(\frac{R_2}{R_2 + R_1}\right) \left(\frac{R_3 + R_4}{R_3}\right) \mathcal{F}_E$$

Ou
$$i_0 = \left(\frac{R_3 + R_4 + R_5}{R_5}\right) \left(\frac{R_2}{R_1 + R_2}\right) \frac{1}{R_3} SE$$



400 DA, USANDO ESSAS CORRENTES NO CIRCUTO



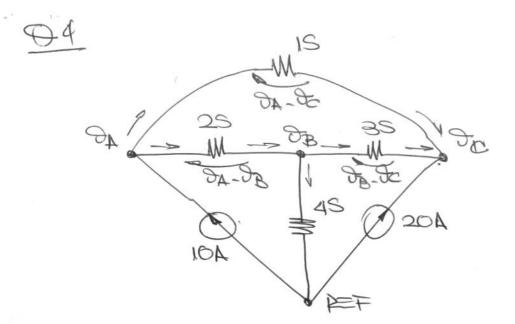
STUSMATUUT, (I) AHJAM AN TXJ A OGUAZU COM 6= 6A & 4= -2A, TEMOS

A MALHA Q, TEMOS: Si,-12i3=-56

RESOLVENTO O SISTEMA

$$\begin{cases} 3i_1 - 2i_3 = -18 \\ 6i_1 - 12i_3 = -56 \end{cases} = 0 \quad i_1 = -13/3 \text{ A}$$

A TENSÃO DE E Pac= 8x (i3+i4) = 8 (2,5-2)=44



$$\frac{10^{2} \text{ A}!}{10-2(8_{1}-3_{1})} = 0$$

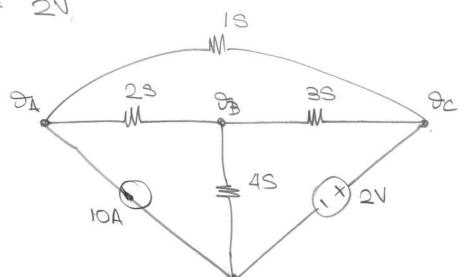
$$\frac{NO'B:}{29A-99B+39E-0}$$

$$\frac{\text{NOC}}{\text{SA}} = \frac{1}{3} \frac$$

$$\begin{vmatrix} -334 + 238 + 32 = -10 \\ 234 - 938 + 32 = 0 \end{vmatrix}$$

$$34 + 338 - 42 = -20$$

BE 2V IS



AS EQ. REFERENCES AOS NÓS A E B NÃO MUDAM, NO ENTANTO, ACORA TEMOS JC=2V. FORTANTO, AS EQ. DOS NÓS A E B FÍCAM

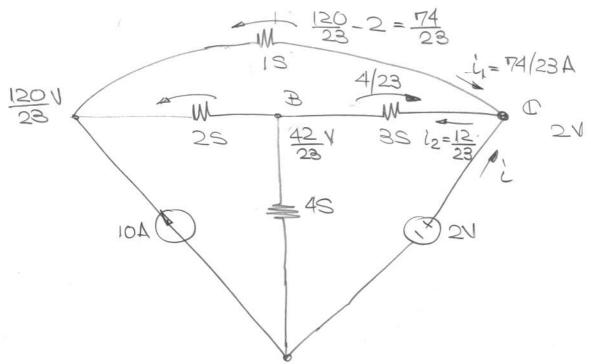
$$294 + 54 - \frac{27}{2}94 = -6 - 99 + (2 - \frac{27}{2}) = -60$$

$$9_{1} = -60 \cdot \frac{2}{(4-27)} = \frac{120}{23}$$

POTENCIA DO CERADOR DE 10A:

$$P = 104 \times 1200 \text{ m}$$





PARA SARGEMOS SE A FONTE DE 2V FORNECE OU DISSIPA POTENCIA TEMOS QUE DETRIMINAR A POLARIDASE DE SUA CORDENTE (i)

AARA TAL ARECISAMOS, ANTES, JAS TENSOES

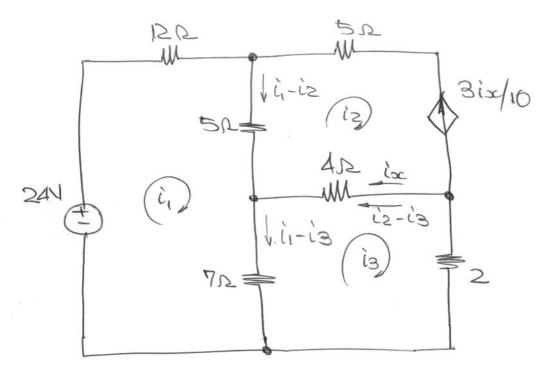
$$3B = -\frac{12+3.120|23}{2} = -6 + \frac{3.60}{23} = \frac{2}{23}$$
$$= -6.23+180 = \frac{42}{23} - \frac{12}{23} = \frac{42}{23} = \frac{42}{23} = \frac{12}{23} = \frac{12}{2$$

FORTANTO, NO NÓ C TEMOS

$$i_1 - i_2 + i_0 = 0$$
 $= i_2 - i_1 = \frac{12}{23} - \frac{74}{23} = -\frac{62}{23} A$

COMO A CORRENTE TETA EFETIVAMENTE ENTRANDO NO TERMINA DE MAIOR POTENCIA DO CERADOR, O CERADOR DE 20 DISSIPA POTÊNCIA, 95

ANÁLIS E MALHAS



MALHA!

$$\frac{24 - 12i_1 - 5(i_1 - i_2) - 7(i_1 - i_3) = 0}{-24i_1 + 5i_2 + 7i_3 = -24}$$

: 8 AHJAM

$$-7(i_1-i_3)-4(i_2-i_3)+2i_3=0$$

$$-7i_1-4i_2+13i_3=0$$

$$\begin{cases} -24i_1 + 5i_2 + 7i_3 = -24 \\ 13i_2 - 3i_3 = 0 \\ -7i_1 - 4i_2 + 13i_3 = 0 \end{cases}$$

C1= 2A -71, -412+13ig=0 -0 |- Aiz+13ig=14 1312-313=0 -= 13=1312 -4iz+13.13iz=14 $\frac{-12+169}{3}i_2=14 - \frac{12}{157}i_2=\frac{3.14}{157}=\frac{42}{157}A$

24)

Petinton de 4se rompen-Ar. Qual a
potencia formacida pula forma de 2h

12se M5se

24 24se

72 24se

72 24se

48x2 = 96x1

Fr = 2x24 = 48N -> 7 = 48x2 = 96W