BILANGO POTENZE E POTENZE DISSIRATE DAI RESISTORI

in 
$$R_1 + (i_a - i_b) \cdot R_2 - \sqrt{3}_2 = 0 => re(R_1 + R_2) + i_b(-R_2) = \sqrt{8}_2$$



) ic. 
$$k_4 + (i - i - i - k_3) + k_3 + k_4 = 0$$
 = ib  $(-k_3) + i - k_4 = -k_4 = -k_2$ 

$$\begin{array}{c|c} R_1 + R_2 & -R_2 & O \\ \hline -R_2 & R_2 + R_3 & -R_3 \\ \hline O & -R_3 & R_3 + R_4 \\ \hline R_1 & R_2 & R_3 \\ \hline \end{array}$$

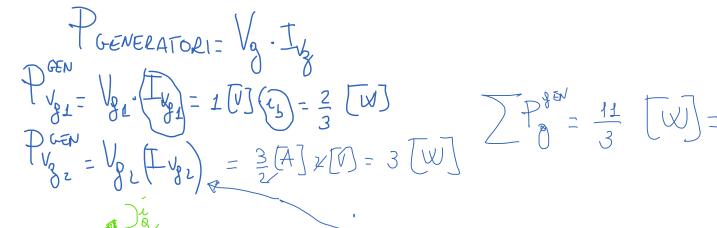
$$\frac{1}{\sqrt{2}} = \frac{2 - 4}{2 - 2 + 4}$$

$$= \frac{24 - 8}{12} = \frac{164}{123}$$

$$i_{C} = \begin{bmatrix} 2 & -1 & 2 \\ -1 & 3 & 1 \\ 0 & -2 & -2 \end{bmatrix} = \begin{bmatrix} -2 & -1 & 2 \\ -2 & 5 & 1 \end{bmatrix}$$

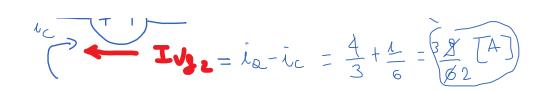
$$V_{g_1} = 1[V]$$
 $v_{g_2} = 2[V]$ 
 $k_1 = k_2 = 1[x_2]$ 
 $k_3 = k_4 = x_2[x_2]$ 
 $i_6 = \frac{4}{3}[A]$ 
 $i_6 = \frac{2}{3}[A]$ 
 $i_6 = -\frac{1}{4}[A]$ 

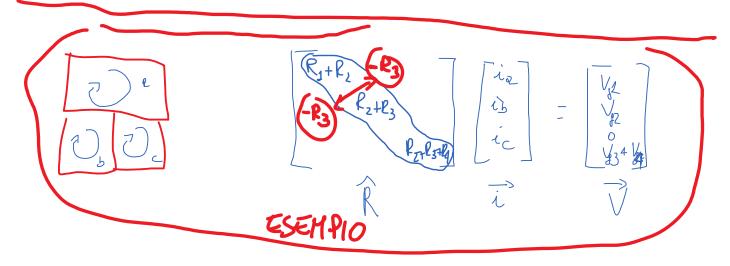
$$V_{g_{1}} = 1[V]$$
 $V_{g_{2}} = 2[V]$ 
 $R_{1} = R_{2} = 1[\Omega]$ 
 $R_{3} = R_{4} = 2[\Omega]$ 

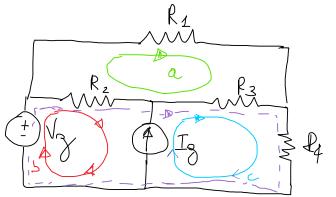


$$\sum_{n=1}^{96N} \frac{11}{3} \left[ \frac{11}{3} \right] = \frac{11}{3}$$

Z PR.







$$T_{g} = 1 [A] VERIFICANCE BICANCE BI$$

$$I_{g} = i_{c} - i_{b} = i_{c} = I_{g} + i_{b} = i_{c} - I_{g}$$

$$i_{a}(R_{1}) + (i_{a} - i_{c}) \cdot R_{2} + (i_{a} - i_{b}) \cdot R_{3} = 0$$

$$= \sum_{i=1}^{\infty} \frac{(R_1 + R_3 + R_2) + ic(-R_3 - R_2) + T_3 \cdot R_2 = 0}{ic(R_2 + R_3 + R_4) - T_3 \cdot R_2 + ie(R_2 - R_3) + 4 - V_3 = 0}$$

$$i\alpha (k_1 + k_2 + k_3) + i_c (-k_3 - k_2) = -Igk_2$$
 $i\alpha (k_2 - k_3) + i_c (k_2 + k_3 + k_4) = Vg + Igk_2$ 

$$\begin{bmatrix} 4 & -3 \\ -3 & 5 \end{bmatrix} \begin{bmatrix} i_{\infty} \\ i_{C} \end{bmatrix} = \begin{bmatrix} -1 \\ 3 \end{bmatrix}$$

$$\begin{vmatrix} 4 & -3 \\ -3 & 5 \end{vmatrix}$$
 =  $4\hat{R}$  = 11

$$iq = \frac{\begin{vmatrix} -1 & -3 \\ 3 & 5 \end{vmatrix}}{4} = \frac{-5+9}{11} = \frac{4}{11}$$

$$i_{C} = \frac{\begin{vmatrix} 4 & -1 \\ -3 & 3 \end{vmatrix}}{11} = \frac{12-3}{11} = \frac{9}{11} \approx 0.81 [4]$$



$$\begin{vmatrix} 4 & -3 \\ -3 & 5 \end{vmatrix} = 4\hat{R} = 11$$

$$T_{g} = 1[A]$$
 $V_{g} = 2[V]$ 
 $R_{1} = R_{2} = 1[-R]$ 
 $R_{3} = R_{4} = 2[R]$ 

$$P_{e_1} = ia^2 \cdot R_1 \approx 0.13 \text{ W}$$
 $P_{e_2} = R_2 \cdot (ie - ib)^2 \approx 0.3 \text{ W}$ 
 $P_{e_3} = R_3 \cdot (ie - ic)^2 \approx 0.4 \text{ W}$ 
 $P_{e_4} = R_4 \cdot ic^2 \approx 1.31 \text{ W}$ 

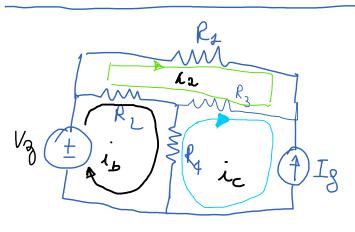
$$P_{I_g}^{g} = I_g \cdot V_{I_g} = \frac{1}{100} \cdot 2.55 [V] = 2$$

$$V_{Ig} = (10 - 16) \cdot R_2 + V_g$$
  
 $V_{Ig} = 0.55 + 2 = 2.55$  [V]

$$2.17 \stackrel{\sim}{=} 2.14$$

19 [A]

1.31 ~ 214 [W]



$$T_8 = J[A] \quad V_9 = 2[V]$$

$$R_1, R_2 = J[R]$$

$$R_3, R_4 = 2R$$

$$i_{CC} = -I_{A} = -1_{A} = -$$

$$\begin{array}{c|c}
\hline
P_{1}+\vec{\ell}_{1}+\vec{\ell}_{2} & -P_{2} \\
\hline
-P_{2} & P_{2}+P_{4}
\hline
\hline
R
\end{array}$$

$$i_{b} = \frac{\begin{vmatrix} -2 & -1 \\ 0 & 3 \end{vmatrix}}{11} = \frac{-6}{11} = \frac{-6}{11} \begin{bmatrix} A \end{bmatrix}$$

$$i_{b} = \frac{\begin{vmatrix} 4 & 24 \\ -1 & 0 \end{vmatrix}}{11} = \frac{0-2}{11} \begin{bmatrix} -2 & 4 \\ 11 & 4 \end{bmatrix}$$

>=2.1

$$T_{3} = I_{3}(V_{1}) = V_{3} + i_{2} + V_{1} = 0 = 0$$

$$V_{1} = V_{3} - v_{3} + i_{2} + V_{1} = 0 = 0$$

$$V_{1} = V_{3} - v_{3} + v_{1} = 0 = 0$$

$$V_{2} = V_{3} - v_{3} + v_{1} = 0 = 0$$

$$V_{3} = V_{3} - v_{3} + v_{1} = 0 = 0$$

$$V_{1} = V_{3} - v_{3} + v_{1} = 0 = 0$$

$$V_{2} = V_{3} - v_{3} + v_{1} = 0 = 0$$

$$V_{3} = V_{3} - v_{3} + v_{1} = 0 = 0$$

$$V_{3} = V_{3} - v_{3} + v_{1} = 0 = 0$$



2.18 (W) = 2.13 (W)

2.18 (W)

B(LANCIO VERIFICATO

Escreitazioni Pagina 15