URY = Kc & Reg cosp + xeq sin \$ / = Pau=kc Pwn= ToA-100

$$\frac{\Phi_{mr}}{\Phi_{m_1}} = \frac{\mathcal{D}_{mr}}{\mathcal{D}_{m_1}} \times \frac{\mathcal{N}_{1} \omega_{1}}{\mathcal{N}_{r} \omega_{r}} \qquad \frac{\Phi_{m_1}}{\Phi_{m_1}} = Y \times \Gamma = R$$

$$3 m_{1} \qquad \Phi_{m_{1}} \qquad 0 \qquad 0 \qquad 0$$

$$\frac{B_{m_1}}{B_{m_1}} = \frac{\varphi_{m_1}}{\varphi_{m_1}} \times \frac{A_1}{A_1} = \{\alpha \mid \beta = 1\}$$

$$\frac{P_{F_r}}{P_{F_l}} = \frac{K_{F_r}}{K_{F_l}} \times \left(\frac{Bmr}{Bm_l}\right)^{T_r} \times \left(\frac{F_r}{F_l}\right)^{\frac{r}{2}} Y^{\frac{r}{2}} \Lambda$$

$$\frac{P_{c_r}}{P_{c_l}} = \frac{P_{h_l} + P_{F_r}}{P_{h_l} + P_{F_r}} = \Lambda$$

$$\int_{\Gamma} \frac{\int_{C} \frac{P_{c}}{V}}{V} \frac{I_{c_{1}}}{I_{c_{1}}} = \frac{P_{c_{1}}}{P_{c_{1}}} \times \frac{J_{1}}{J_{\Gamma}} = \Lambda \times \frac{1}{\Gamma} = \Gamma$$

$$\int_{\Gamma} \frac{P_{c}}{V} \frac{I_{c_{1}}}{I_{c_{1}}} = \frac{P_{c_{1}}}{P_{c_{1}}} \times \frac{J_{1}}{J_{\Gamma}} = \Lambda \times \frac{1}{\Gamma} = \Gamma$$

$$m = \frac{\rho_{\phi_m}}{\sim}$$

$$\frac{\int_{m} \frac{\rho_{0m}}{N} \frac{\int_{m_{i}} \frac{R_{i}}{I_{m_{i}}}}{\frac{R_{i}}{R_{i}}} \frac{\rho_{r}}{\rho_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \propto f \times I = f \int_{m_{i}} \frac{1}{r} \frac{1}{r} \frac{1}{r} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{1}{r} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{1}{r} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{i}} \frac{N_{i}}{N_{i}} = \frac{1}{r} \times f \times I = f \int_{m_{$$

$$\Rightarrow \boxed{\text{$f-j|y$}}$$

(S)7.

7: 1,00 5 n ra Zegr - 1/0/alooo x = - 40 K WA

$$\frac{B_{mr}}{B_{m_{i}}} = \frac{\mathcal{Q}_{mr}}{\mathcal{Q}_{m_{i}}} \times \frac{\mathcal{N}_{i} \mathcal{W}_{i}}{\mathcal{N}_{i} \mathcal{W}_{i} \mathcal{A}_{i}} = \frac{\mathcal{Q}_{i}}{\mathcal{Q}_{i}} \times \frac{1}{\kappa} \times \frac{1}{\kappa} = \frac{\mathcal{Q}_{i}}{\Gamma_{k}}$$

$$\frac{P_{F_{i}}}{P_{F_{i}}} = \left(\frac{B_{mr}}{B_{m_{i}}}\right)^{\Gamma} \left(\frac{F_{r}}{F_{i}}\right)^{r} = \left(\frac{\mathcal{Q}_{i} L_{r}}{\mathcal{Q}_{oL_{i}}}\right)^{r} \times \frac{L_{r}}{L_{i}} + \frac{L_{r}}{L_{i}} \times \frac{1}{R_{m_{i}}} = \frac{\mathcal{Q}_{i}}{\Gamma_{k}}$$

$$\frac{K_{i}^{r} \Gamma_{i}^{r}}{\Gamma_{k}} \times \frac{\Gamma_{i}^{r}}{\Gamma_{k}} \times \frac{\Gamma_{i}^{r}}{\Gamma_{k}} = \frac{\Gamma_{i}^{r}}{\Gamma_{k}}$$

$$\frac{K_{i}^{r} \Gamma_{i}^{r}}{\Gamma_{k}} \times \frac{\Gamma_{i}^{r}}{\Gamma_{k}} \times \frac{\Gamma_{i}^{r}}{\Gamma_{k}} = \frac{\Gamma_{i}^{r}}{\Gamma_{k}}$$

$$\frac{K_{i}^{r}}{\Gamma_{k}} \times \frac{\Gamma_{i}^{r}}{\Gamma_{k}} \times \frac{\Gamma_{i}^{r}}{\Gamma_{i}} \times \frac{\Gamma_{i}$$

$$\left|\frac{5L^{A}}{5L^{B}}\right| = \left|\frac{2B^{P.u}}{2A^{P.u}}\right| = \frac{\epsilon}{\delta} = \%$$

The son tout

Th [= (00 = 10 A) I.u. t = 140 x 10 = 600 A Office Cood In = No Pcu = (St) => Pca = (No) [x [Kw = YKw]

Paul = Reg x 5 rated = % Y x 100 = YIERW Kman = 1 Peore = Y, Cxw Q = DHD DHD-D10 = 400 = 1,0 Sat = x5t = 1,8x 10=110 Pour = 400 = 90 kw > Kot = 40 = 1/0 Prore = Yitkw 1 = KSrated cosp

K Sroted cosp + Pout Prore 7 = "18 × 110×1 | 90 = 90 = 90 3 = 6.0 = K Flow & Pau = R | [-14 R 100 } 100 Z

Pin =
$$\Gamma P_t$$
 \Rightarrow 400 \times $\int_{\Gamma} n = Y \times (6001 I_1)$
 $\Rightarrow I_1 = \frac{\alpha}{F} I_{1} n \qquad I_{\Gamma} = \frac{600}{\Gamma_{10}} I_{1} = Y \int_{\Gamma} \frac{9}{F} I_{1} n$
 $\times U_2: 400 = 600 \times \frac{1}{F} I_{1} n + 10 \times \frac{10}{F} I_{1} n$
 $\Rightarrow I_1 = F \qquad I_{\Gamma} = 9A$
 $\times U_2: 400 = R_{A}(I_1 + I_{\Gamma}) + 10 \times \frac{10}{F} I_{1} n$
 $\Rightarrow I_1 = F \qquad I_{\Gamma} = 9A$
 $\times U_2: 400 = R_{A}(I_1 + I_{\Gamma}) + 10 \times \frac{10}{F} I_{\Gamma}$
 $\times U_2: 400 = R_{A}(I_1 + I_{\Gamma}) + 10 \times \frac{10}{F} I_{\Gamma}$

DZ.

Pin= Vin Iin cos Pin = {00({8x, 97)=14840

Pol=51 (89 P) = 1.000(0/1) = 1000 W Por=5,089,=10KUARXIY = 4000 W

Por=1000 PLOSS = Pin - Por - Por - Por = 1040

ع الم انتخب سا بنك تران م كمنه ين المعوان را دارد لذا تران هم همداره دميارافات المراقة

N. < 5 Load < 180

n = Pout

Pout = 5 (05 0 Pout + Prove + PenstPould

 $N_{A} = \frac{\delta \circ}{\delta \circ + 1/\delta + 1 + \Gamma/\delta} = \frac{\delta \circ}{\delta \circ} \qquad N_{B} = \frac{\Gamma \circ}{\Gamma \circ} = \frac{11\Gamma}{100}$

SB=+sn= rokeB PcoreB=lidkw PcomoB=+kw 13 - 30x 114 - 1,01

(P) &