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P2-Maquiras 2-816 362-15/3/22

Chustas s Curva "V"

letra C - Diminui e o fator de potêncio diminui

Questão 2) Curva "V"

letra B - Diminuira', mantenda - se capacilera

Unistant 31  $P_1 = \frac{V_1 E_F \text{ Nem [S]}}{X}$   $P_2 = \frac{V_2 E_7 \text{ Nem (S)}}{X}$ Libra  $D = 60^{\circ} \left\{ \frac{P_1}{P_2} = \frac{2en S_1}{2en S_2} = 7 \text{ nem (S_1)} \right\} = 7 S_2 = \text{orwnem} \left( \frac{\sqrt{3}}{2} \right) = 60^{\circ}$ Unestant 4)

Letter B = I, II, II, II, V, V.

Uvertor ] 5

letra A - I, II, III, III

Unestos 6

letra B - Ajusto o convente de compo de G2 para se produzer o mesmo tensão membrol entre os linhos. a, b' e C.

Questos 7

Otro E - I a III

Questão 8

letra 6 - 4 quistais verdadeliras

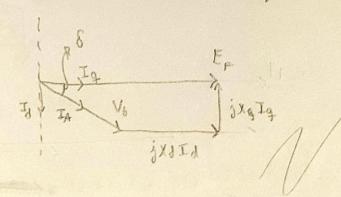
Questois 9) Gerason Sinurano: 30, Y, 22KV, 5KVA, FP=1. Xd=122, Xg=72, corrente maminal, tensão nominal, RA=0.

 $I_{A} = \frac{5000}{\sqrt{3}^{2} 22K} = 0.13122$ ;  $V_{4} = \frac{22K}{\sqrt{3}^{1}} = 12.701 \text{ KV}$ ;  $\theta = 0^{\circ}$ 

Id = IA sen 4 /8-90° = 0.00001 /-89.996°

I = IACO2 4/8 = 0.13/22/0.004/4°

EF= Vt 10° + Id Xdj + Iq Xqj = 12,701/0.00414° KV



Whereas 10) M.S 2300V, 400 HP, 60 HZ, 8 Polos, Y, FP = 0.85 odlantoda Plena carga: M = 85%, RA = 0.4 x, Xs = 4.4 x.

Encontrar: Pour, Pin, W, Es, IA, Pden

Para = 400 x 745.7 = 298.28 KW

$$E_F = V_t - (R_A + j \times_5) T_A = \frac{2300}{\sqrt{3}} - (0.4 + j \cdot 4.4) (103.633 / 31.79°) =$$

$$E_F = 1586.62 / -14.95° V$$

Peoble = 3 Ra Io = 12887, 75843 W

Chrestons 11) M & 30, Salientes, 100 MVA, 12 KV, 60 HZ, Xd = 1 pu, Xg = 0.7 pu  $\delta = \kappa_{9}^{-1} \left( \frac{i_{A} \times_{4} \times_{01}(\theta)}{V_{t} - k_{9} \times_{01}(\theta)} \right) = 33.69^{\circ} - 7 = 8 - \theta = 7.85^{\circ}$ S= 33.69° 4= 7.85° Id= 0.8 ren (7.85°) (33.69-90° = 0.1093 (-56.31° pu Ig= 0.8 cas(7.85°) /33.69° = 0.7925 /33.69° pu EF= Vt + Id Xdj + Ig xgj= 0.9414/33.69° = EF=11.296K/33.69° b) I==0=1 E==0  $P = \frac{V_b x_b}{x_b} - \frac{V_b^2(x_b - x_a)}{2x_b x_a} nem(82) = \frac{V_b^2(x_b - x_a)pen(28)}{2x_b x_a} = PP = \frac{3 nem(28)}{14}$ df = 8 cos (28) - 0 = R [25=90°] - R P= 3 ren (90°) = 0. 2143 pm/ FP= Pid= 0.2143 = 0.2143 = 7.630

Questão 12)  $X_5 = 1.2 \text{ pw}$ ,  $I_{max} = 2.5 I_F$ ,  $I_{F} - 17 V_{F, VZ}$   $E_{f_{max}} = 2.5 \text{ pw}$ ;  $I_{a} = \frac{V_{t} - E_{F}}{jX_{5}} = \frac{1 - 2.5}{j! \cdot 2} = 1.25 \text{ pw}$  $Q_{max} = V_{T} t_{A} = 1 \times 1.25 = 1.25 \text{ pw}$