Porte II

a) 12 ≈0 => lunha nom jet dus

[A B]
$$A = D = Cos(\beta d) = 0.9498 \Omega$$

 $C = j \frac{1}{2} nm(\beta d) = j 1.11 mS$

J = 300 Km

$$\beta = \omega \sqrt{LC} = 1.06 \times 10^{-3}$$

$$Z_0 = \sqrt{\frac{L}{c}} = 2.81.366$$

b)
$$\begin{bmatrix} V_{a} \\ I_{L} \end{bmatrix} = \begin{bmatrix} A & B \\ C & D \end{bmatrix} \begin{bmatrix} V_{m} \\ I_{m} \end{bmatrix} < = > \begin{bmatrix} V_{m} \\ I_{2} \end{bmatrix} = \begin{bmatrix} A & B \\ C & D \end{bmatrix} \begin{bmatrix} V_{3} \\ C & D$$

$$V: V_3 \propto A^{-1}V_2$$

 $V: I_2 \propto c V_3$

$$F: Go(\frac{d}{2} \cdot \beta) \cdot V_m = V_{\frac{d}{2}}$$

c)
$$V_{2T} = 120 \text{ kV}$$

 $T_{1T} = 148.59 \text{ A}$

c)
$$V_{2T} = 120 \text{ kV}$$

$$I_{2T} = 148.59 \text{ A}$$

$$I_{$$

$$P_{CM} = Rt \cdot I_{CM}^2 = 5 \times 10^{-3}$$
, $(0.2 \text{ lil})^2 = 7 \text{ q. } 0.17 \text{ kW}$

$$I_{CM} = I_{TT} = 0.2811 \cdot \frac{5 \text{ k}}{\sqrt{3.10 \text{ k}}} = 3.245 \text{ kA}$$

$$E = \frac{1}{j} \times_{s} 1 \qquad \Rightarrow E = 1 + j \cdot 1 \cdot 1 \cdot 0, 2811 \Rightarrow |E| = 1.055$$

$$V = V_{AT} \times_{s} = 1_{1}^{2} 1 M$$

$$I = I_{AT}$$