1 = 300 Km

$$I(0) = \left(\frac{5(0)}{V(0)}\right)^* = \left(\frac{(150 + 350)M}{\frac{220}{\sqrt{3}}}\right)^* = 1244.9913 \angle -18.43^{\circ} A$$

$$\cosh(8x) \approx \cosh(j\beta x) \approx \cosh(\beta x) \Rightarrow \cosh(\beta x)$$

$$\sinh(8x) \approx \cosh j\beta x \approx j \sin(\beta x)$$

$$\beta = 0 + j4.0905 \times 10^{3} \text{ m}^{-1}$$

$$\beta = j4.0905 \times 10^{3}.$$

## Character from for the formation of the

$$V(X) = \frac{220}{\sqrt{3}} \omega_2(\beta x) - Z_c I_{ojnen(\beta x)} = 7$$

V(x) = 127x103 cos(4,0905x107xX) - 150.5371 x103/-18.430 ren (4,0905x107xX)

Fazenslo X= l=300 Km

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8= \3 4 = \(\left(\frac{1}{0.045+j0.4}\right)\(\frac{1}{04.15^6}\right)^7 = 0.0001 + 0.0013 j

Zc=\3/y =\((0.045+j0.4)/(j4x10) = 316.73 - 17.760j

A = cosh (Y1) = cosh (0,0001 + 0,0013 j) (250) = 0.9504+0.0055 j

B = Zc nenh (Yl) = (316.73 -12.76j) romh(Yl) = 10.8778 + 98.3624j

 $C = \frac{1}{Z_c} \operatorname{nomh}(Yl) = \frac{1}{(316.73 - 17.76j)} \operatorname{nenh}(Yl) = -0.0000 + 0.0010j$ 

D= cosh(xl) = cosh(xl) = 0.9504+0.0055 j

models TT

$$\frac{10.878 \text{ j} 8.3624}{10.873624}$$

$$\frac{1}{2} = \frac{11m}{2}$$

$$\frac{1}{2} = \frac{11m}{2}$$

Z = B

$$Y = \frac{2}{Z_c} t_3 h\left(\frac{\chi l}{2}\right) = 0.0000 + 0.00103$$