

1. $\frac{90}{60}$ 100
 $\frac{150}{60}$? $\rightarrow 167$
 B
 2. B
 3. A
 4. C
 5. A
6. C
 7. D
 8. A
 9. C
 10. C

Parte II

$$V_B = 150 \text{ KV}$$

$$\text{Reche: } S_{cc} = 500 \text{ MVA}$$

$$\text{Gerador: } S = 100 \text{ MVA}$$

$$X_S = 1,2 \mu$$

$$x'_d = 0,2 \mu$$

$$\text{Linha: } V_n = 150 \text{ KV} \quad l = 1,2 \text{ mH/Km}$$

$$d_1 = 200 \text{ Km} \quad C = 9,5 \text{ nF/Km}$$

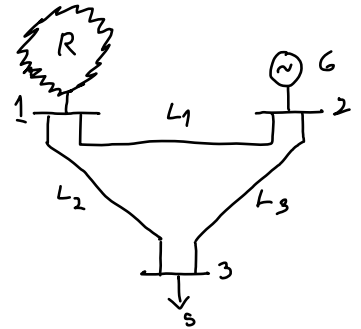
$$R \approx 0$$

$$\text{Linha: } d_2 = d_3 = 150 \text{ Km}$$

Carga;

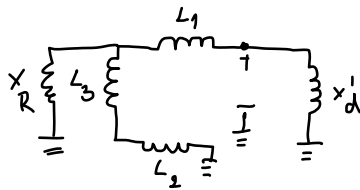
$$P = 90 \text{ MW}$$

$$Q = 0 \text{ Mvar}$$



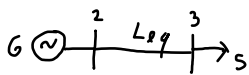
a) cc em 2

$$P_{cc} \text{ e } V_A$$



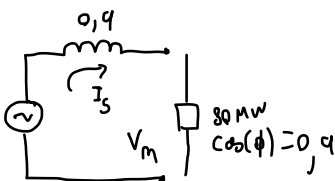
$$X_{th} = \left[\left((X_{L3} + X_{L2}) // X_R \right) + X_{L1} \right] // x'_d$$

b)



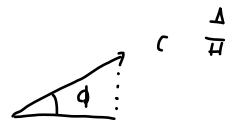
$$L_{eq} = (L_1 + L_2) // L_3$$

A)



$$E = jX_S \cdot I_S + V_m$$

$$S = V \cdot I_S^*$$



$$80 + j \frac{80}{0,9} \sin(\cos^{-1}(0,9)) \text{ MVA}$$

$$V_N = 10 \text{ KV}$$