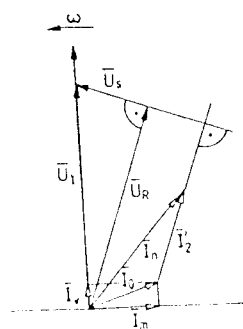
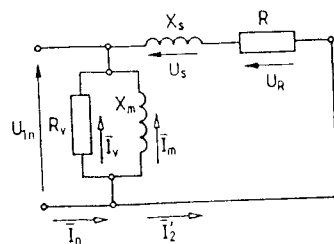


$$X_2 = \sqrt{Z_2^2 - R^2} = \sqrt{6^2 - 2,1^2} = 5,62 \, \Omega$$

$$M_i = \frac{P_{1i}}{\omega_0} = \frac{4235}{157,079} = 26,96 \, \text{N} \cdot \text{m}$$

$$M_i = 26,96 \, \text{N} \cdot \text{m}$$

d)



$$\text{e) } I_v = \frac{U_{1n}}{R_v} = \frac{220}{440} = 0,5 \, \text{A}$$

$$I_m = \frac{U_{1n}}{X_m} = \frac{220}{75} = 2,93 \, \text{A}$$