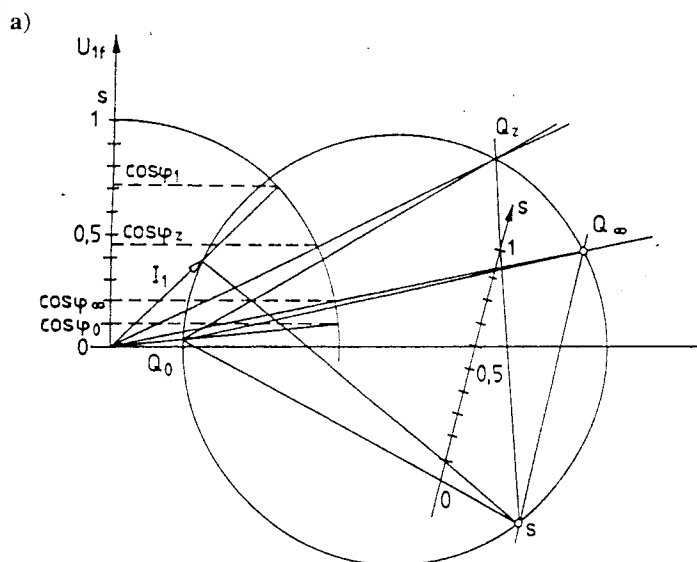



$$\cos \varphi_n = 0,7$$

c) $P_1 = \sqrt{3} \cdot U_{lv} \cdot I_1 \cdot \cos \varphi_n = \sqrt{3} \cdot 380 \cdot 49 \cdot 0,7 = 22,594 \text{ kW}$

a) a Q_∞ pont adatai:

$$\cos \varphi_0 = \frac{P_0}{\sqrt{3} \cdot U_{1n} \cdot I_0} = \frac{1000}{\sqrt{3} \cdot 380 \cdot 20} = 0,076$$

Q_1 pont adatai:

$$I_{zn} = I_z \cdot \frac{U_1}{U_z} = 100 \cdot \frac{380}{200} = 190 \text{ A}$$

$$\cos \varphi_z = \frac{P_z}{\sqrt{3} \cdot U_z \cdot I_z} = \frac{10000}{\sqrt{3} \cdot 200 \cdot 100} = 0,287$$

$$R_2'/R_1 = 1,2 \rightarrow 6:5 \text{ arányban osztandó fel a } \overline{Q_1E} \text{ szakasz}$$

$$\cos \varphi_n = 0,7$$

$$P_1 = 22,594 \text{ kW}$$

5.1.44. feladat