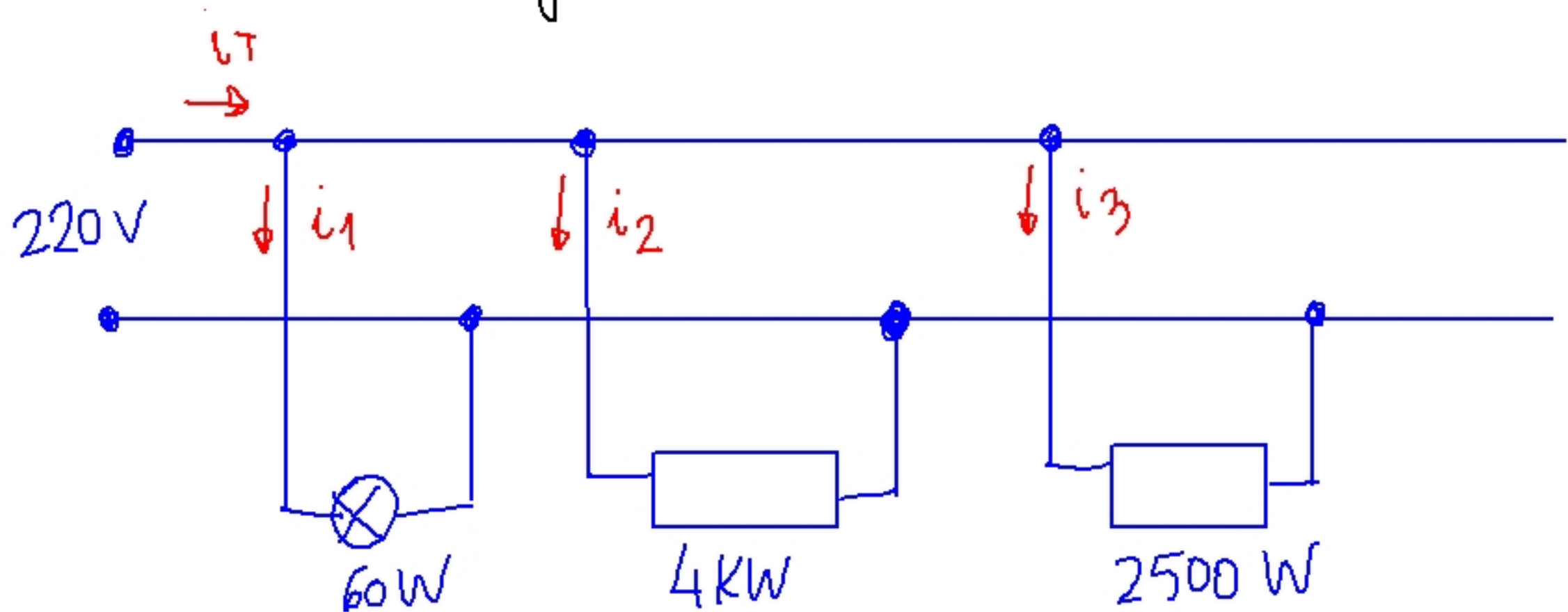
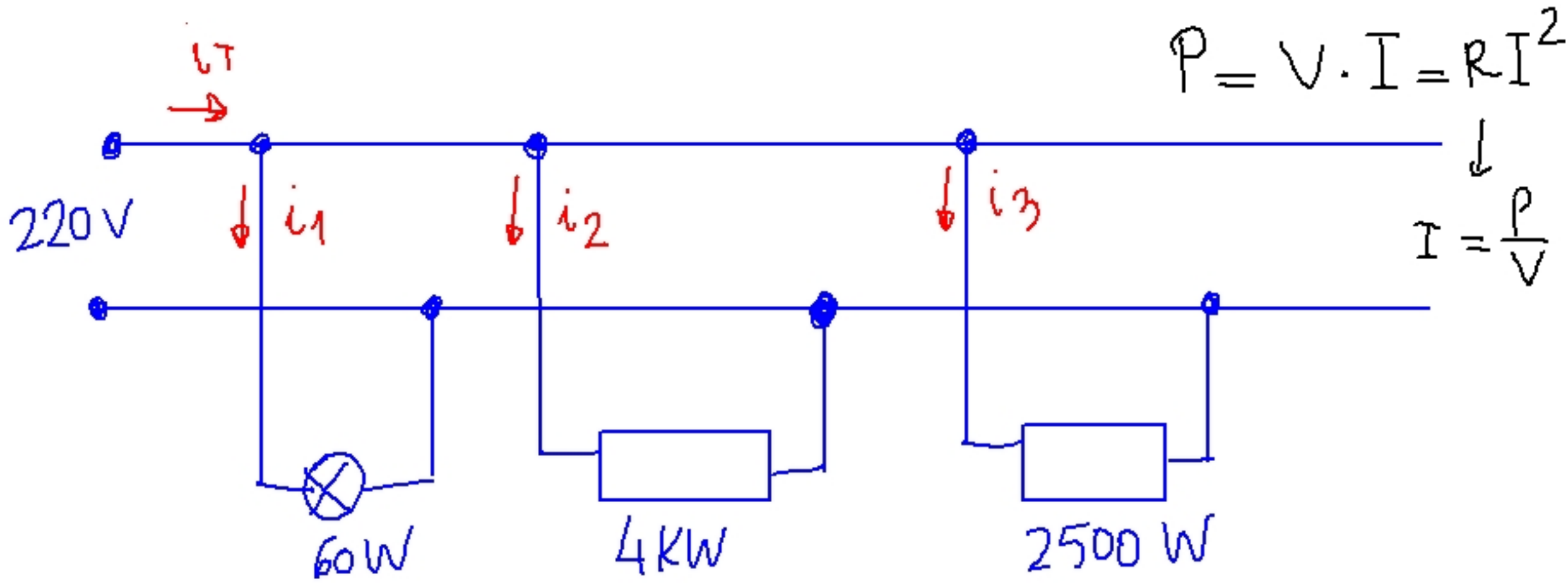


220 V-eko sare elektrikoak honako hargailuak ditu: 60 W-eko lanpara, 4 kW-eko sukalde elektrikoa eta 2500 W-eko berogailua.

Kalkulatu:

- hargailu bakoitzak zurgatzen duen intentsitatea
- hargailu bakoitzaren erresistentzia
- guztizko erresistentzia

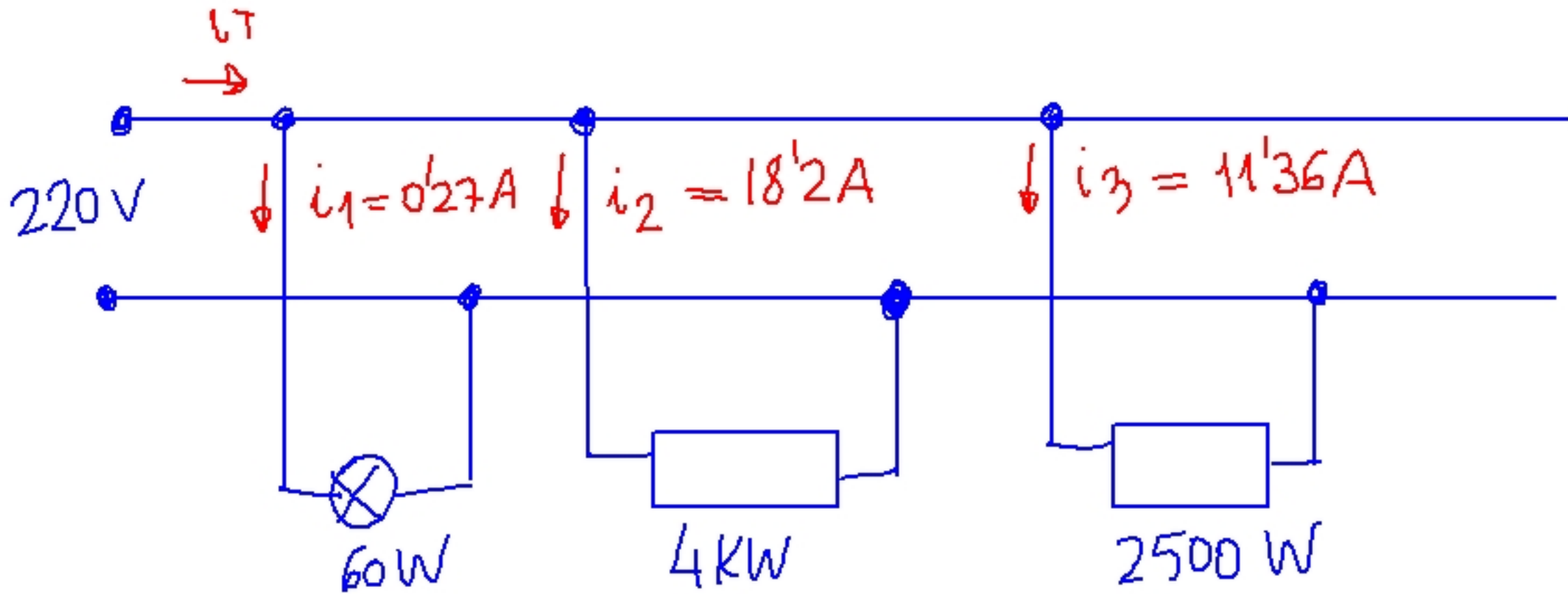




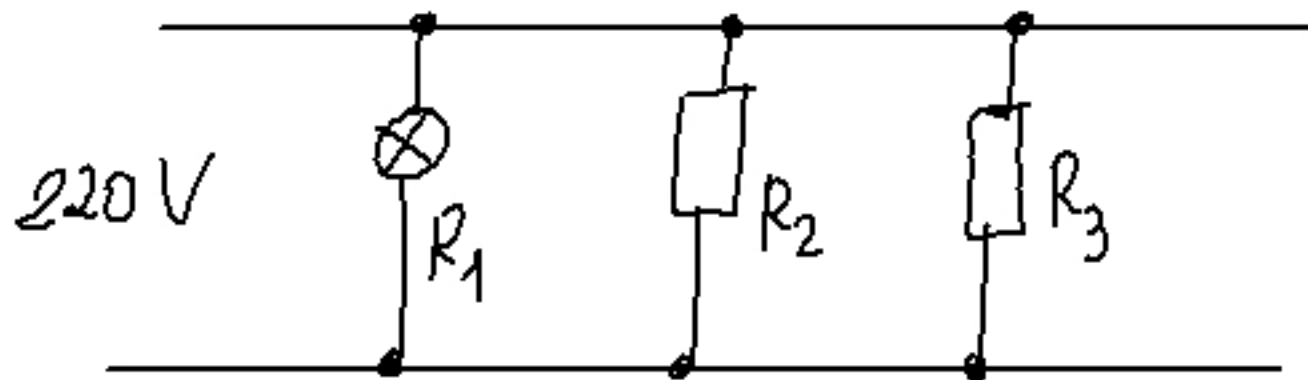
$$I_1 = \frac{60W}{220V} = 0.27A$$

$$I_3 = \frac{2500W}{220V} = 11.36A$$

$$I_2 = \frac{4000W}{220V} = 18.2A$$



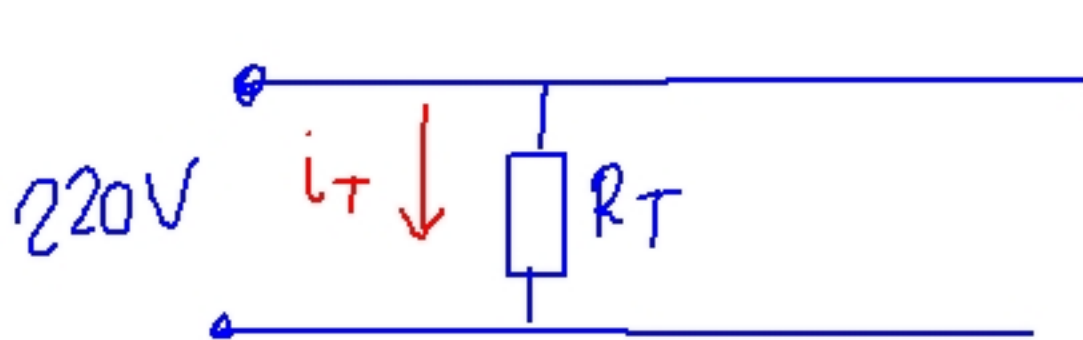
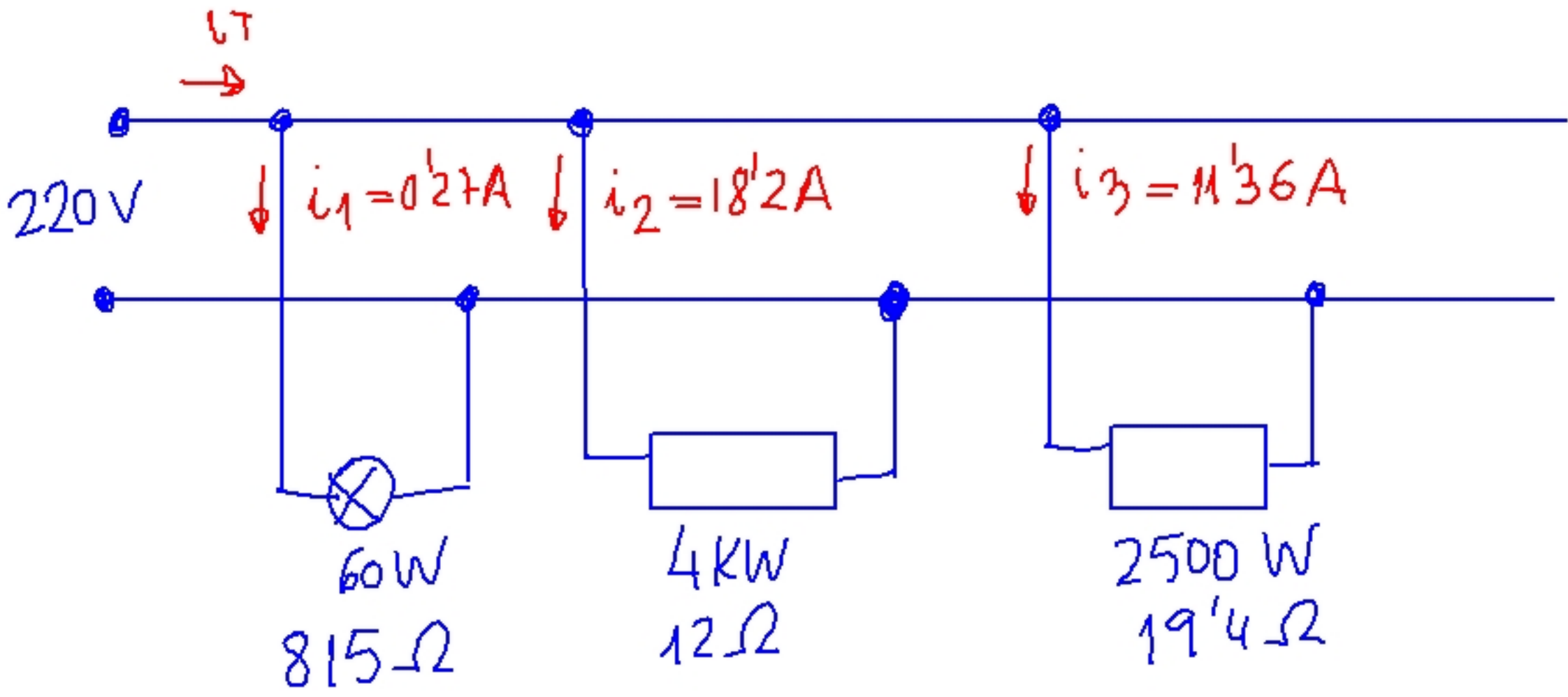
$$P, I, V, (R) \rightarrow R = \frac{V}{I}$$



$$R_1 = \frac{220V}{0.27A} = 815 \Omega$$

$$R_3 = \frac{220V}{11.36A} = 19.4 \Omega$$

$$R_2 = \frac{220V}{18.2A} = 12 \Omega$$



$$\frac{1}{R_T} = \frac{1}{815 \Omega} + \frac{1}{12 \Omega} + \frac{1}{19.4 \Omega} = 0.001 + 0.083 + 0.051 = 0.135$$

$$R_T = \frac{1}{0.135} = 7.41 \Omega$$

$$i_T = \frac{V}{R} = \frac{220V}{7.41 \Omega} = 29.69 A$$

$$i_T = 0.27A + 18.2A + 11.36A = 29.83 A$$