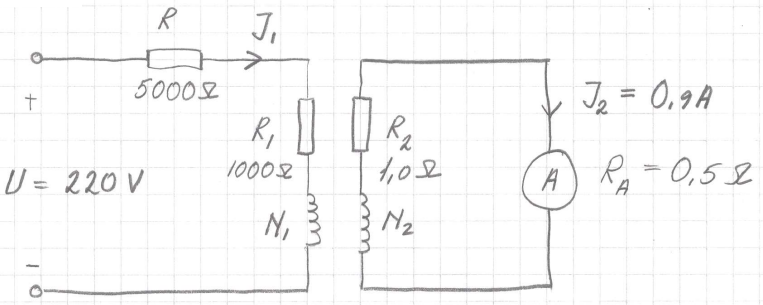
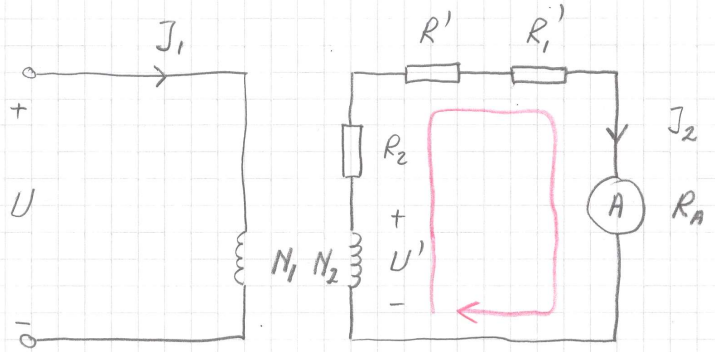


BESTÄM $\frac{N_1}{N_2}$.

TRANSFORMERA ÖVER "ALLT" PÅ SEKUNDÄRSIDAN:



$$+U' - R_2 J_2 - R' J_2 - R_1' J_2 - R_A J_2 = 0 \quad \ldots (1)$$

$$\frac{R}{R'} = \left(\frac{N_1}{N_2}\right)^2 \Rightarrow R' = R \Big/ \left(\frac{N_1}{N_2}\right)^2 \quad , \quad R_1' = R_1 \Big/ \left(\frac{N_1}{N_2}\right)^2$$

$$\frac{U}{U'} = \frac{N_1}{N_2} \Rightarrow U' = U \Big/ \frac{N_1}{N_2}$$

SÄTT $X = 1 \Big/ \frac{N_1}{N_2}$

INS I (1) →

$$+ 220X - 1{,}0 \cdot 0{,}9 - 5000X^2 \cdot 0{,}9 - 1000X^2 \cdot 0{,}9 - 0{,}5 \cdot 0{,}9 = 0$$

$$-5400X^2 + 220X - 1{,}35 = 0$$

$$X^2 - \frac{220}{5400}X + \frac{1{,}35}{5400} = 0$$

$$X = \frac{110}{5400} \pm \sqrt{\left(\frac{110}{5400}\right)^2 - \frac{1{,}35}{5400}}$$

$$X = 0{,}02037 \pm 0{,}01284$$

$$X = 0{,}03321 \Rightarrow \frac{N_1}{N_2} = 30$$

ELLER

$$X = 0{,}007527 \Rightarrow \frac{N_1}{N_2} = 133$$