

str. 125 / úloha 641

$$U_2 = 50 \text{ V}$$

$$N_1 = 800 \text{ z}$$

$$N_2 = 200 \text{ z}$$

$$U_1 = ? \text{ [V]}$$

$$\mu = \frac{N_2}{N_1}$$

$$\mu = \frac{200}{800}$$

$$\mu = 0,25$$

$$\mu = \frac{U_2}{U_1}$$

\Rightarrow

$$U_1 = \frac{U_2}{\mu}$$

$$U_1 = \frac{50}{0,25}$$

$$\underline{\underline{U_1 = 200 \text{ V}}}$$

$$\frac{N_2}{N_1} = \frac{U_2}{U_1}$$

$$\frac{N_1}{N_2} = \frac{U_1}{U_2}$$

$$U_1 = \frac{N_1}{N_2} \cdot U_2$$

$$U_1 = \frac{800}{200} \cdot 50$$

$$\underline{\underline{U_1 = 200 \text{ V}}}$$

Napětí na primární cívice je 200 V.