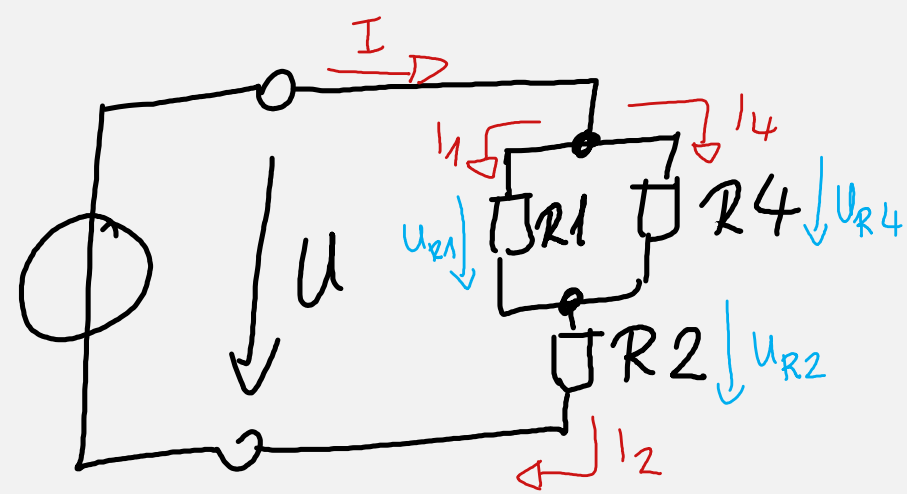


DOGA?

0. najz:



ADATOK: 1983.11.25.

$$R_1 = R_2 = 25 \Omega$$

$$R_4 = 11 \Omega$$

$$U = 19,83 V$$

$$1.) R_e = (R_1 \times R_4) + R_2$$

$$R_e = (25 \times 11) + 25$$

$$R_e = \left(\frac{25 \cdot 11}{25 + 11} \right) + 25$$

$$R_e = \frac{275}{36} + 25$$

$$R_e = 7,63 + 25$$

$$R_e = \underline{\underline{32,64 \Omega}}$$

$$2.) I = \frac{U}{R_e} = \frac{19,83 V}{32,64 \Omega} = \underline{\underline{0,61 A}}$$

$$3.) U_{R2} = R_2 \cdot I = 25 \Omega \cdot 0,61 A = \underline{\underline{15,19 V}}$$

$$4.) U_{R1} = U_{R4} = U - U_{R2} = 19,83 V - 15,19 V = \underline{\underline{4,64 V}}$$

$$5.) I_1 = \frac{U_{R1}}{R_1} = \frac{4,64 V}{25 \Omega} = \underline{\underline{0,19 A}}$$

$$6.) I_4 = \frac{U_{R4}}{R_4} = \frac{4,64 V}{11 \Omega} = \underline{\underline{0,42 A}}$$

$$7.) P = U \cdot I = 19,83 V \cdot 0,61 A = \underline{\underline{12,05 W}}$$

$$P_1 = U_{R1} \cdot I_1 = 4,64 V \cdot 0,19 A = \underline{\underline{0,86 W}}$$

... stb...