U_1[V]	U_2 [V]	R_1 [Ω]	R_2 [Ω]	R_3 [Ω]	R_4 [Ω]	R_5 [Ω]	R_6 [Ω]	R_7 [Ω]	R_8 [Ω]
100	80	450	810	190	220	220	720	260	180

$$U_{12} = U_1 + U_2 = 100 + 80 = 180V$$

$$R_{56} = \frac{R_5 R_6}{R_5 + R_6} = \frac{220 \cdot 720}{220 + 720} = 168.510638297872333\Omega$$

$$R_{78} = R_7 + R_8 = 260 + 180 = 440\Omega$$

Nyní provedeme transfiguraci trojuhelník hvězda

$$R_A = \frac{R_1 R_2}{R_1 + R_2 + R_3} = \frac{450 \cdot 810}{450 + 810 + 190} = \frac{364500}{1450} = 251.37931034482763\Omega$$

$$R_B = \frac{R_1 R_3}{R_1 + R_2 + R_3} = \frac{450 \cdot 190}{450 + 810 + 190} = \frac{85500}{1450} = 58.965517241379313\Omega$$

$$R_C = \frac{R_2 R_3}{R_1 + R_2 + R_3} = \frac{810 \cdot 190}{450 + 810 + 190} = \frac{153900}{1450} = 106.137931034482763\Omega$$

$$R_{B5} = R_B + R_{56} = 58.96551724137931 + 168.51063829787233 = 227.476155539251643\Omega$$

$$R_{C4} = R_C + R_4 = 106.13793103448276 + 220 = 326.137931034482763\Omega$$

$$R_{B5C4} = \frac{R_{B5} R_{C4}}{R_{B5} + R_{C4}} = \frac{227.47615553925164 \cdot 326.13793103448276}{227.47615553925164 + 326.13793103448276} = 134.007794466351163\Omega$$

$$R_{EKV} = R_A + R_{B5C4} + R_{78} = 251.3793103448276 + 134.00779446635116 + 440 = 825.387104811117873\Omega$$