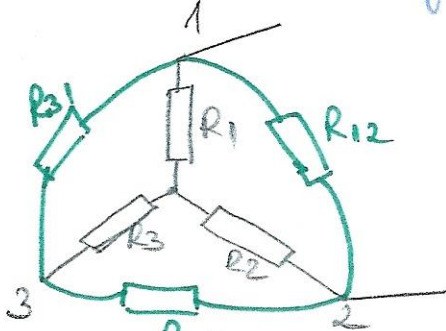


#### 4.8. Transfigurati stea-triunghi



DIN TRIUNGHII IN STEA.

$$R_1 + R_2 = R_{12} \frac{(R_{31} + R_{23})}{R_{12} + R_{23} + R_{31}}$$

$$R_2 + R_3 = R_{23} \frac{(R_{31} + R_{12})}{R_{12} + R_{23} + R_{31}}$$

$$R_3 + R_{12} = R_{31} \frac{(R_{12} + R_{23})}{R_{12} + R_{23} + R_{31}}$$

$$\cancel{2(R_1 + R_2 + R_3)} = \frac{\cancel{2(R_{12}R_{31} + R_{12}R_{23} + R_{31}R_{23})}}{R_{12} + R_{23} + R_{31}}$$

$$R_1 = R_1 + R_2 + R_3 - R_2 - R_3$$

$$= \cancel{R_{12}(R_{31} + R_{23})}$$

$$= \frac{R_{12}R_{31} + \cancel{R_{12}R_{23}} + \cancel{R_{23}R_{31}} - \cancel{R_{12}R_{31}} - \cancel{R_{23}R_{12}}}{R_{12} + R_{23} + R_{31}}$$

$$R_1 = \frac{R_{12}R_{31}}{R_{12} + R_{23} + R_{31}}$$

$$R_3 = \frac{R_{13}R_{23}}{R_{12} + R_{23} + R_{31}}$$

$$R_2 = \frac{R_{12}R_{23}}{R_{12} + R_{23} + R_{31}}$$

DIN STEA IN TRIUNGHII

$$R_{12} = R_1 + R_2 + \frac{R_1 R_2}{R_3}$$

$$R_{31} = R_3 + R_1 + \frac{R_3 R_1}{R_2}$$

$$R_{23} = R_2 + R_3 + \frac{R_2 R_3}{R_1}$$