

U [V]	I_1 [A]	I_2 [A]	R_1 [Ω]	R_2 [Ω]	R_3 [Ω]	R_4 [Ω]	R_5 [Ω]
130	0.95	0.50	47	39	58	28	25

$$G_1 = \frac{1}{R_1} = \frac{1}{47} S$$

$$G_2 = \frac{1}{R_2} = \frac{1}{39} S$$

$$G_3 = \frac{1}{R_3} = \frac{1}{58} S$$

$$G_4 = \frac{1}{R_4} = \frac{1}{28} S$$

$$G_5 = \frac{1}{R_5} = \frac{1}{25} S$$

$$I_3 = \frac{U}{R_4 + R_5} = \frac{130}{28 + 25} = \frac{130}{53} A = 2.452830188679245 A$$

Nyní sestavíme rovnici pro jednotlivé uzly

$$A) G_1 U_A + G_2 (U_A - U_B) = I_1$$