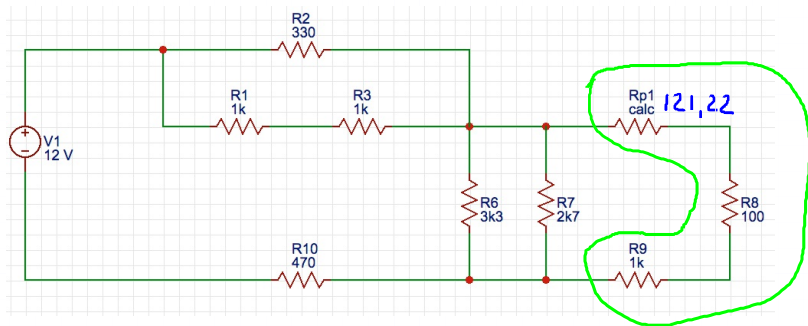
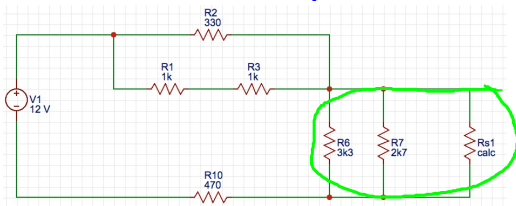


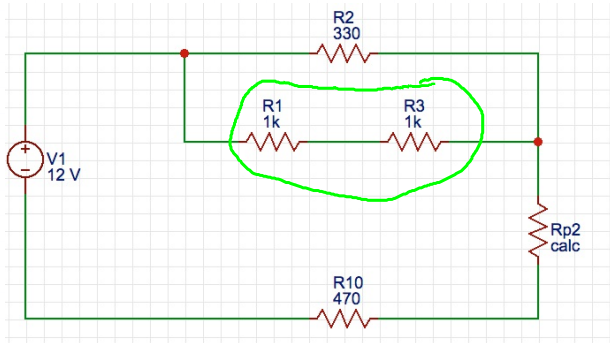
$$R_{p1} = \frac{1}{\frac{1}{R_4} + \frac{1}{R_5}} = \frac{1}{\frac{1}{220} + \frac{1}{270}} = 121,22 \Omega$$



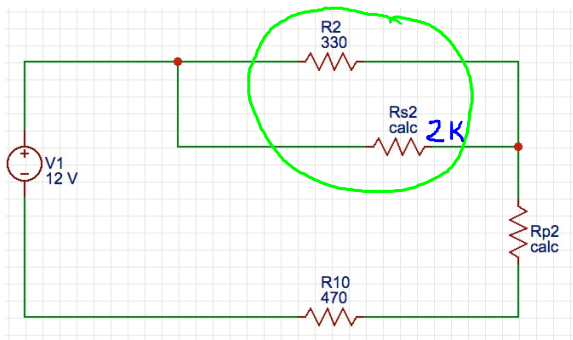
$$R_{s1} = R_{p1} + R_8 + R_9 = 121,22 + 100 + 1 \cdot 10^3 = 1221,22$$



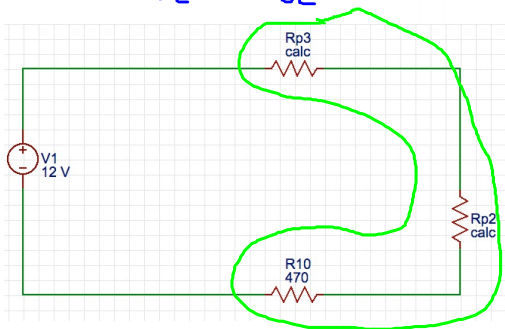
$$R_{p2} = \frac{1}{\frac{1}{R_6} + \frac{1}{R_7} + \frac{1}{R_{s1}}} = \frac{1}{\frac{1}{3,3 \cdot 10^3} + \frac{1}{2,7 \cdot 10^3} + \frac{1}{1221,22}} = 670,13 \Omega$$



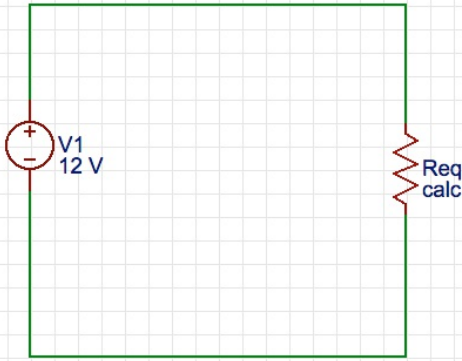
$$R_{s2} = R_1 + R_3 = 1 \cdot 10^3 + 1 \cdot 10^3 = 2 \text{ k}\Omega$$



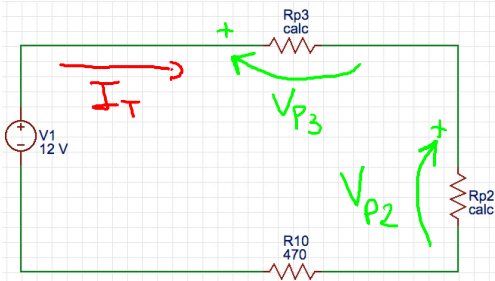
$$R_{p3} = \frac{1}{\frac{1}{R_2} + \frac{1}{R_{s2}}} = \frac{1}{\frac{1}{330} + \frac{1}{2 \cdot 10^3}} = 283,26 \Omega$$



$$\begin{aligned} R_{s3} = R_{eq} &= R_{p3} + R_{p2} + R_{10} = \\ &= 283,26 + 670,13 + 470 = \\ &= 1423,4 \end{aligned}$$



$$I_T = \frac{V_1}{R_{eq}} = \frac{12}{1423,4} = 8,43 \mu A$$



$$I_{10} = I_T = 8,43 \mu A$$

$$V_{10} = R_{10} \cdot I_{10} = 470 \cdot 8,43 \cdot 10^{-3} = 3,96 V$$