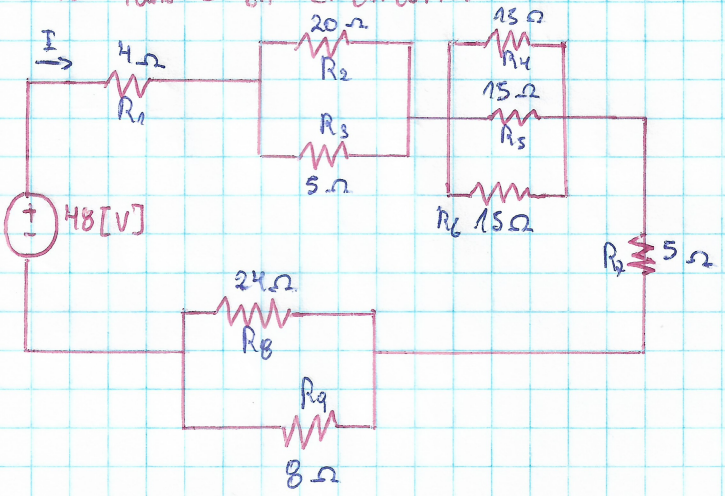
2.46 Halle I en el circuito.

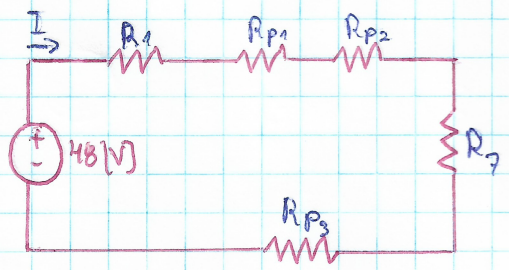


$$R_{P_1} = \frac{R_3 R_2}{R_3 + R_2} = \frac{(20)(5)}{20+5} = 4\,\Omega$$

$$R_{P_2} = \frac{R_4 R_5 R_6}{R_4 R_5 + R_4 R_6 + R_5 R_6} \qquad R_4 = R_6 = R_5 = 15.$$

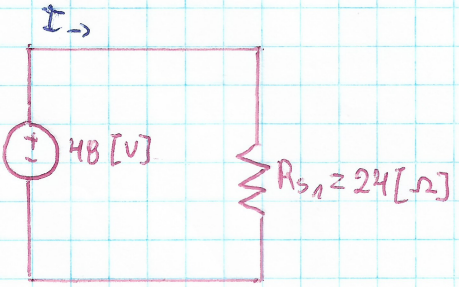
$$R_{P_2} = \frac{(15)^3}{3(15)^2} = 5\,\Omega$$

$$R_{P_3} = \frac{R_8 R_9}{R_8 + R_9} = \frac{(24)(8)}{24+8} = 6\,\Omega$$



$$R_{S_1} = R_1 + R_{P_1} + R_{P_3} + R_7 + R_{P_3}$$

$$R_{S_1} = 4 + 4 + 5 + 5 + 6 = 24\,[\Omega]$$



$$I = \frac{V}{R_{S_1}} = \frac{48}{24} = 2\,[A]$$