2.24) Todos los resistores de la figura 2.93 son de 1 Ω. Halle R_{eq}.

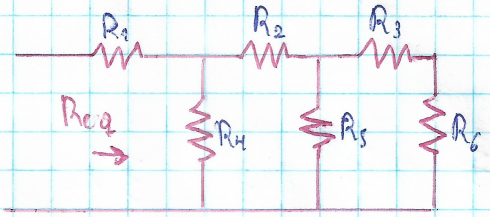
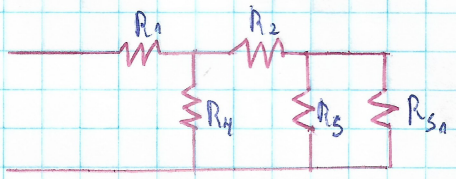
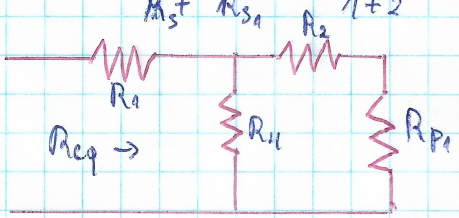


Figura 2.93

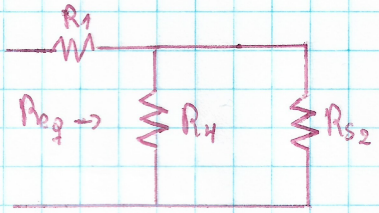
$R_{S_1} = R_3 + R_4 = 1 + 1 = 2\ \Omega$



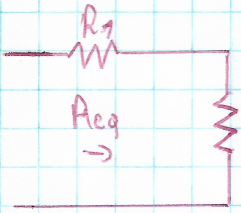
$$R_{P_1} = \frac{R_5 R_{S_1}}{R_5 + R_{S_1}} = \frac{1(2)}{1+2} = \frac{2}{3}$$



$$R_{S_2} = R_2 + R_{P_1} = 1 + \frac{2}{3} = \frac{5}{3}$$



$$R_{P_2} = \frac{R_4 R_{S_2}}{R_4 + R_{S_2}} = \frac{(1)(5/3)}{1 + 5/3} = \frac{5}{8}$$



$R_{seq} = R_{eq}$

$$R_{eq} = R_1 + R_{P_2} = 1 + \frac{5}{8} = \frac{13}{8}$$