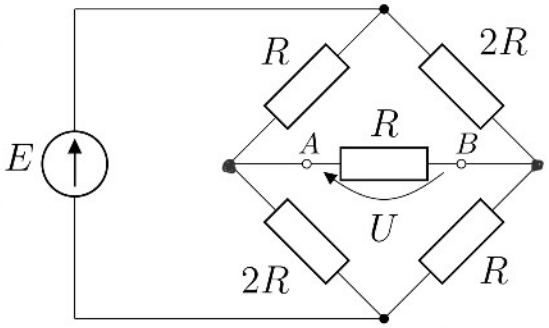
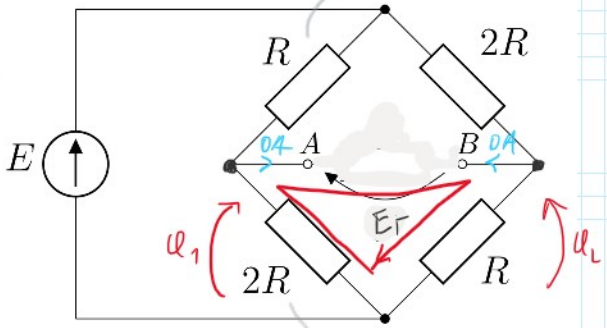


E_T)



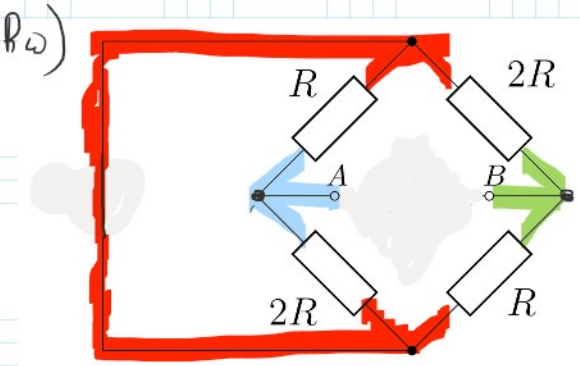
$U_1 - E_T - U_L = 0$

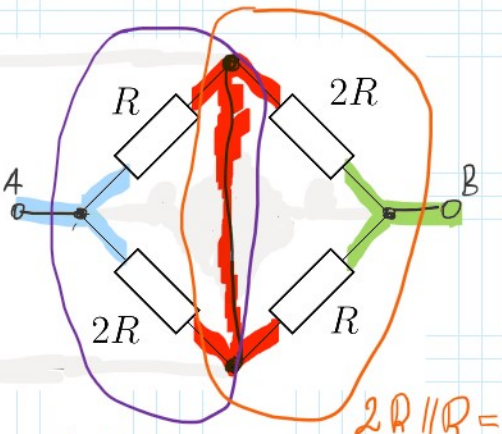
$E_T = U_1 - U_L = \left(\frac{2}{3} - \frac{1}{3}\right) E = \frac{E}{3}$

$U_1 = E \cdot \frac{2R}{2R + R} = \frac{2}{3} E$

$U_2 = E \cdot \frac{R}{R + 2R} = \frac{1}{3} E$

R_ω)

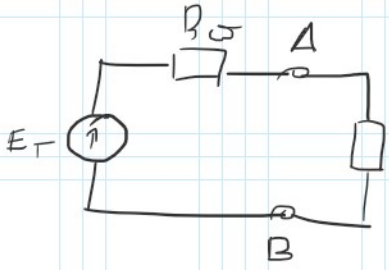




$2R \| R = \frac{2}{3} R$

$R \| 2R = \frac{2}{3} R$

$R_\omega = \frac{2}{3} R + \frac{2}{3} R = \frac{4}{3} R$



B) $U = E_T \cdot \frac{R}{R + R_\omega} = \frac{E}{3} \cdot \frac{R}{R + \frac{4}{3} R} = \frac{E}{3} \cdot \frac{1}{\frac{7}{3}} = \frac{E}{7}$