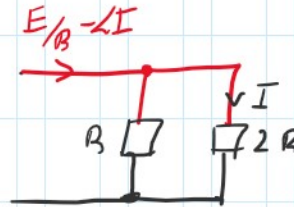
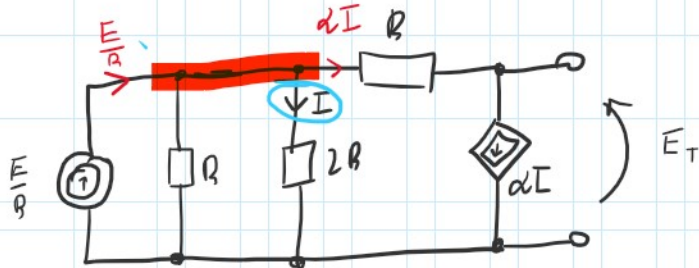
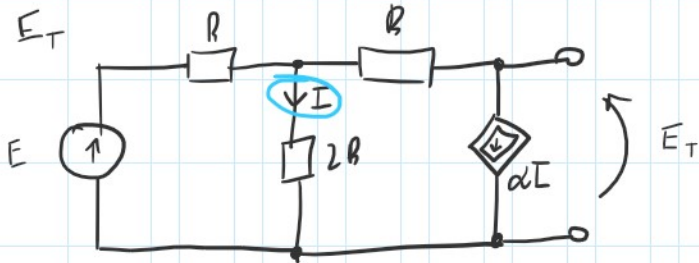
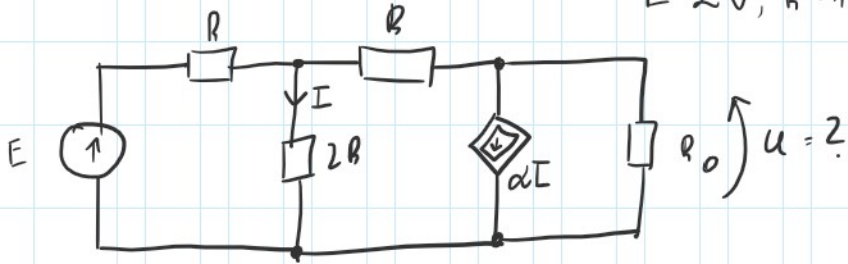


$$E = 2V, R = 1\Omega, \alpha = \frac{1}{2}$$



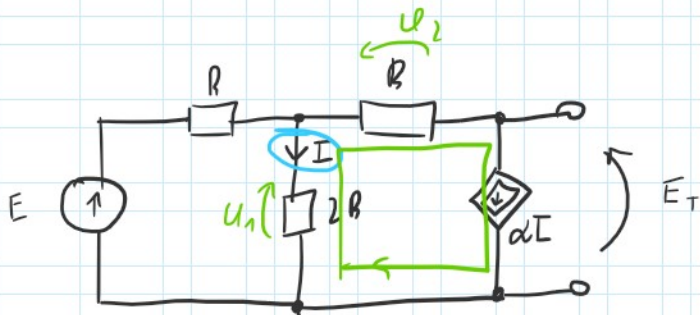
$$I = \left( \frac{E}{R} - \alpha I \right) \cdot \frac{R}{R + 2R}$$

$$I = \left( \frac{E}{R} - \alpha I \right) \cdot \frac{1}{3} \quad | \cdot 3$$

$$3I = \frac{E}{R} - \alpha I$$

$$I(3 + \alpha) = \frac{E}{R}$$

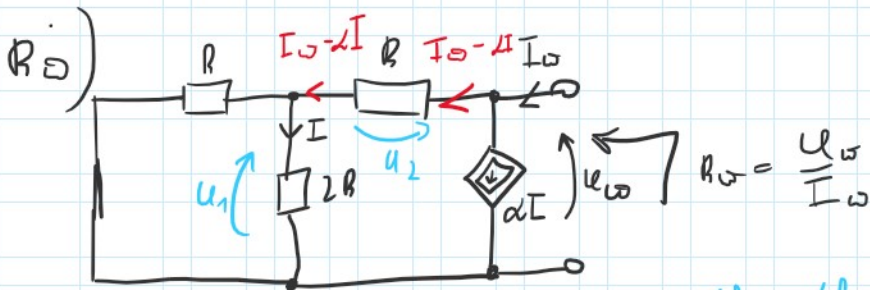
$$I = \frac{E}{R(3 + \alpha)}$$



$$U_1 - U_2 - E_r = 0$$

$$I \cdot 2R - \alpha I R = E_r$$

$$E_r = \frac{2 - \alpha}{3 + \alpha} \cdot E$$



$$R_0 = \frac{U_0}{I_0}$$

$$U_1 + U_2 - U_0 = 0$$

$$U_0 = U_1 + U_2$$

...

$$I = (I_0 - \alpha I) \cdot \frac{R}{R + 2R}$$

$$I = \frac{E}{R(3 + \alpha)}$$