

Fig. 8a

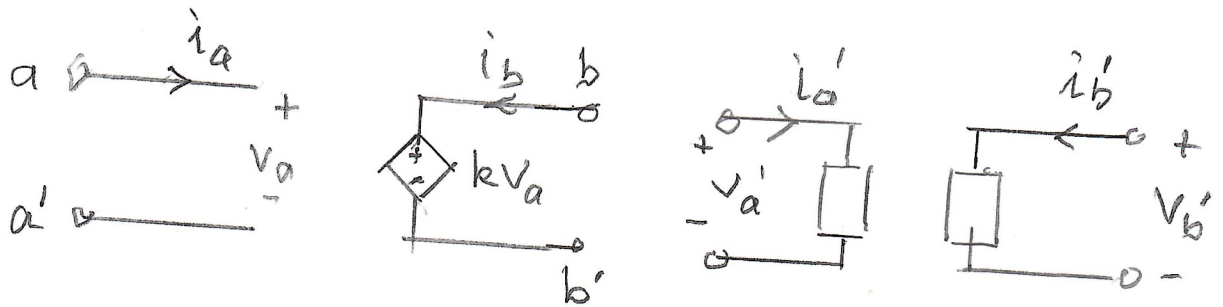


Fig. 8b

$$V_a i_a' + k V_a i_b' = V_a' \cdot 0 + V_b' i_b$$

8b

$$i_a' + k i_b' = \left(\frac{i_b}{V_a}\right) V_b' \quad \forall i_b/V_a$$

$$\text{So } V_b' = 0, \quad i_b' = -(1/k) i_a' \quad \text{CCCS}$$



$$V_a i_a' + V_b i_b' = V_a' \cdot 0 + V_b' g_a V_a$$

8a

$$i_a' + (V_b/V_a) i_b' = V_b' g_a$$

$$i_a' - V_b' g_a = i_b' (V_b/V_a) \rightarrow 0$$

$$i_a' = g_a V_b'$$

