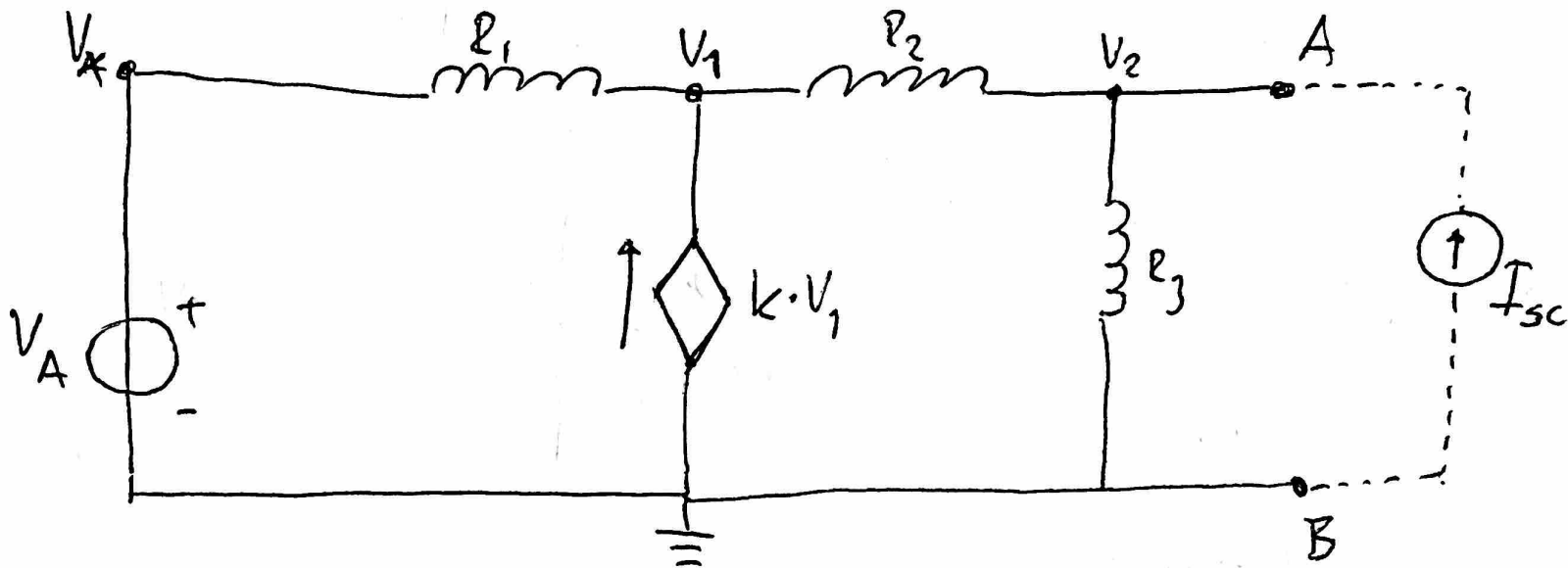# PROBLEM 1

$\text{KCL} \quad \text{IN } V_1: \dfrac{V_2 - V_1}{R_2} + \dfrac{V_x}{R_1} - \dfrac{V_1 - V_x}{R_1} = 0$

$\text{KCL} \quad \text{IN } V_2: I_{sc} - \dfrac{V_2 - V_1}{R_2} - \dfrac{V_2}{R_3} = 0$

$\text{VOLTAGE DIVIDER}: V_x = V_1 \cdot \dfrac{R_1}{R_2}$

$R_{TH} = \dfrac{V_2}{I_{sc}}$