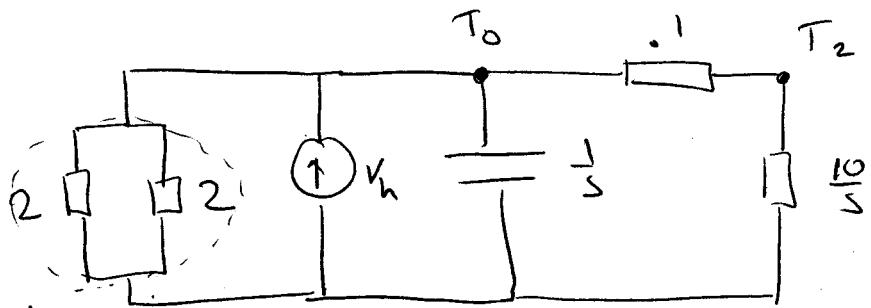
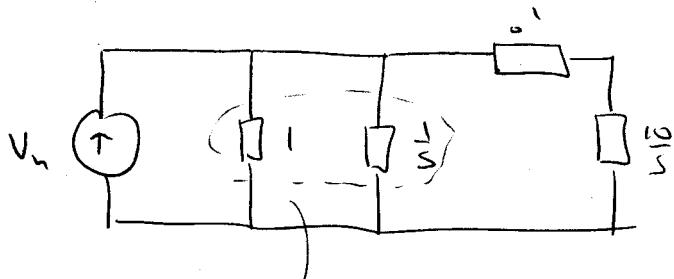


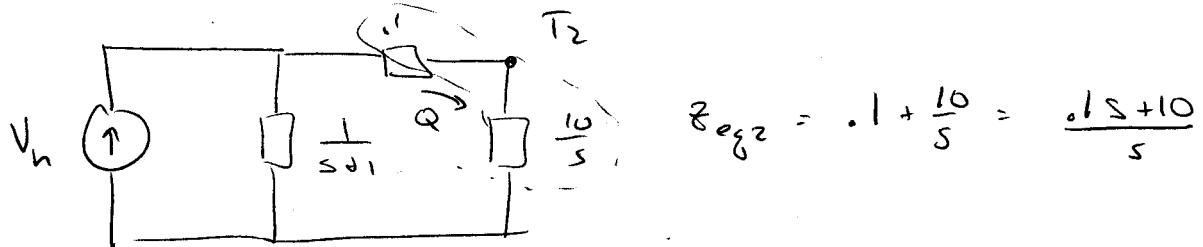
① to find $G(s)$, set $T_0 = 0$



$$R_{eq} = \frac{2 \cdot 2}{2+2} = 1$$



$$Z_{eq} = \frac{\frac{1}{s}}{1 + \frac{1}{s}} = \frac{1}{s+1}$$



current divider: $Q = \frac{\frac{s}{0.1s+10}}{\frac{s}{0.1s+10} + s+1} \cdot V_h = \frac{s}{s^2 + 11.1s + 10} V_h$

$$T_2 = \frac{10}{s} \cdot Q \quad T_2(s) = \frac{10}{s^2 + 11.1s + 10} V_h(s)$$

$$G(s) = \frac{T_2(s)}{V_h(s)} = \frac{100}{s^2 + 11.1s + 100}$$