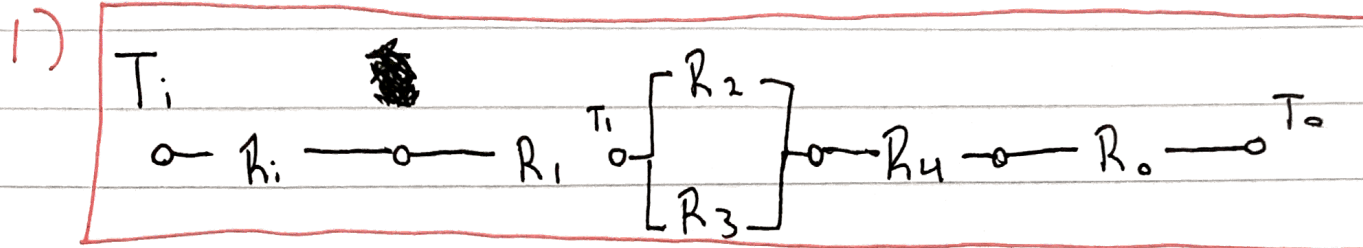
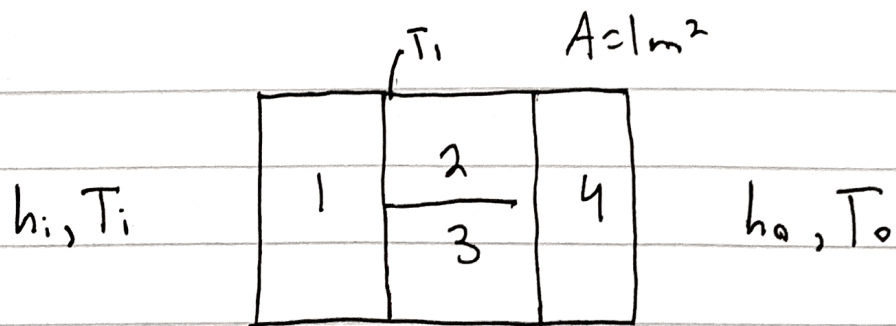


SUBJECT: Quiz 08

DATE: 2/3/22



$$q_{\text{loss}} = (T_i - T_o) / (R_i + R_1 + R_{2-3} + R_4 + R_o)$$

@  $T_i \rightarrow R_i + R_1$

$$q = (T_i - T_1) / (R_i + R_1)$$

$$q_{\text{loss}} \cdot (R_i + R_1) = T_i - T_1$$

2)

$$T_1 = T_i - q_{\text{loss}} \left( \frac{1}{h_i \cdot A} + \frac{L_1}{K_1 \cdot A} \right)$$

3)

$$R_i = 1 / h_i \cdot A$$

$$R_2 = \left( \frac{L_2}{K_2 \cdot \frac{1}{2}} \right)$$