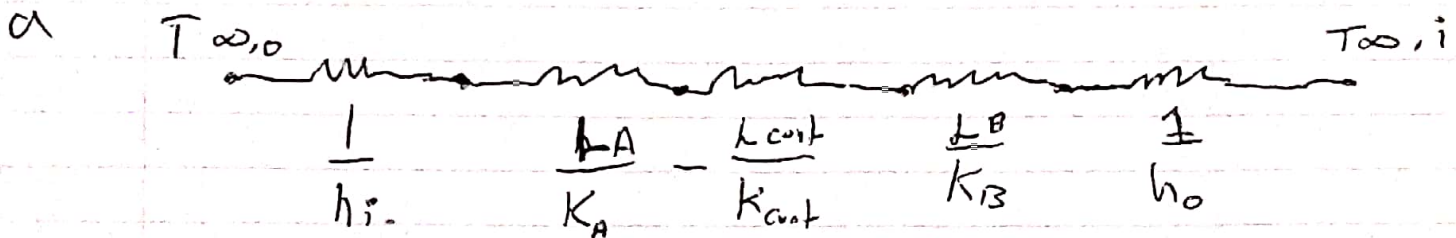


Ahmad Hamad - 300144088 - Quiz B

Givens

$l_A = 8 \text{ mm}$ $l_B = 16 \text{ mm}$ Material A $t = 200^\circ\text{C}$ material B $t = 0^\circ\text{C}$
 $h_1 = 16 \frac{\text{W}}{\text{m}^2\text{K}}$ $h_2 = 20 \frac{\text{W}}{\text{m}^2\text{K}}$ $K_A = 0.09$ $K_B = 0.02$

Assumptions : 1D conduction, const properties, neglect radiation



b)

$$= \frac{l_{interface}}{K_{interface}}$$