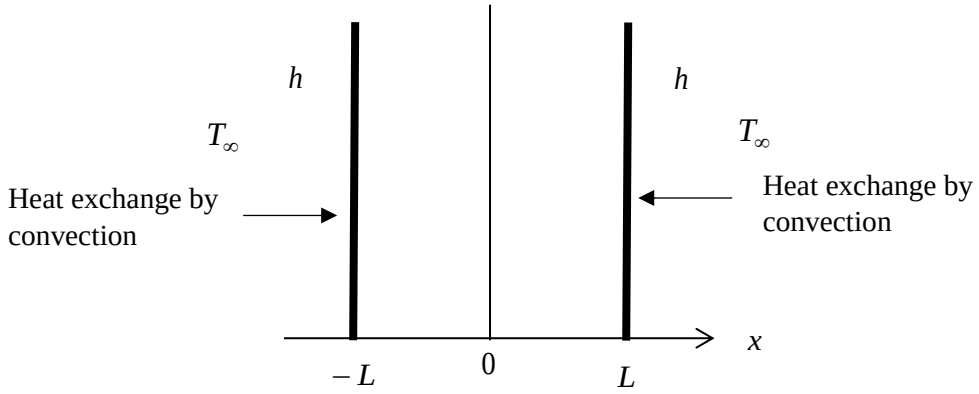
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Heat Transfer I
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Home work



Heat is generated at a rate q_S in a large slab of thickness $2L$, as shown in the figure. The side surfaces lose heat by convection to a liquid at temperature T_∞. Find the steady-state temperature distributions $T(x)$ for the following cases :

a) $q_S = q_0\left(1-\left(\frac{x}{L}\right)^2\right)$

b) $q_S = a + b(T - T_\infty)$

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