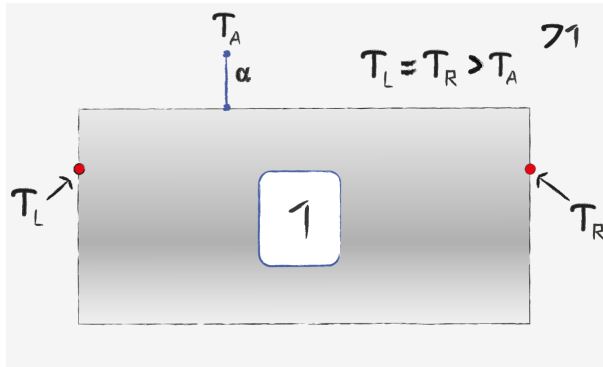# Heat Conduction: Task 71

The image describes a rectangular body with temperatures T_L and T_R given at the left and right boundary. Remaining surfaces are specified as convective boundaries with given temperature T_A.

Since temperatures at the left and right are equal and higher than the ambient temperature, heat is conducted towards the body's center from both sides. Convective heat loss indicates a decreasing heat flux within the body, yielding a decreased slope of the temperature profile towards the center. The problem is completely symmetrical and so is the temperature profile.

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