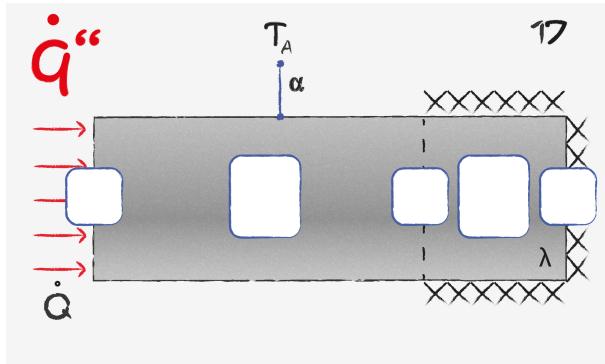


# Axial Heat Flux: Task 17



The image describes a rectangular body with an imposed heat flux on the right and heat loss through convection. The right part is isolated from all directions.

- 1   
The imposed heat flux yields a positive profile.
- 2   
Convection causes the specific heat flux to decrease. Due to temperature loss less heat is convected towards the right.
- 3   
The transition is characterized by a kink from decrease to constant, since from here on walls are adiabatic.
- 4   
Due to the isolation of any surrounding surface including the right boundary, no heat is conducted at all.
- 5   
Specific heat flux remains zero to the right.