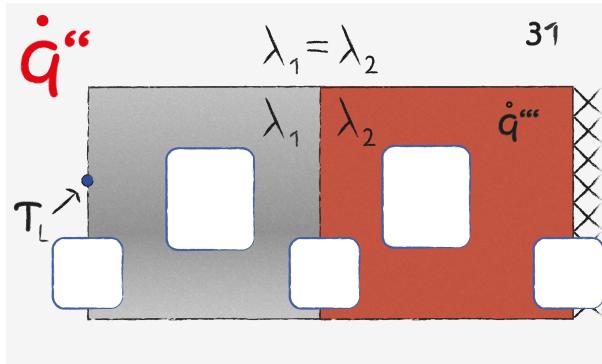
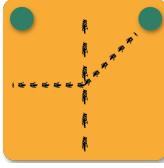


Axial Heat Flux: Task 31



The image describes a rectangular body with a volumetric heat source in section 2 and an adiabatic wall on the right side. Thermal conductivities of the sections are equal.

- 1  The heat source in section 2 indicates heat flow towards the left, which yields a negative heat flux.
- 2  Due to the constant cross section area, the specific heat flux is constant too.
- 3  The transition is characterized by a kink from decrease to increase, since it marks the beginning of the heat source.
- 4  The heat source causes a linear increase of specific heat flux.
- 5  The adiabatic wall forces the heat flux to vanish at the boundary.