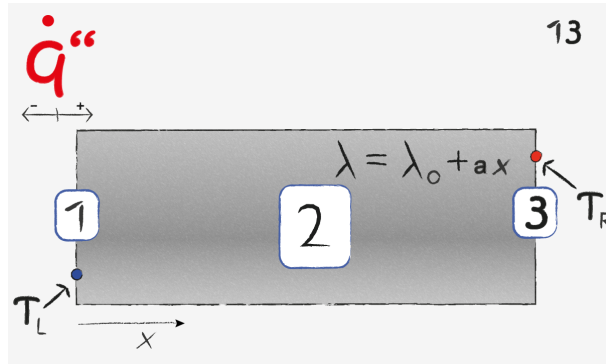


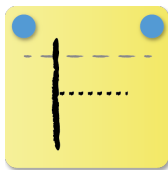


Axial Heat Flux: Task 13



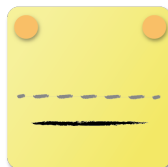
The image describes a rectangular body with linearly increasing heat conductivity towards the right. On the right side temperature reaches it's maximum.

1



Since temperature gradient is positive, specific heat flux is negative.

2



Neither heat sources and sinks nor changes in cross section area cause the specific heat flux to change. Also the change in conductivity has no effect on the heat flux.

3



Therefore it remains constant all the way to the right boundary.