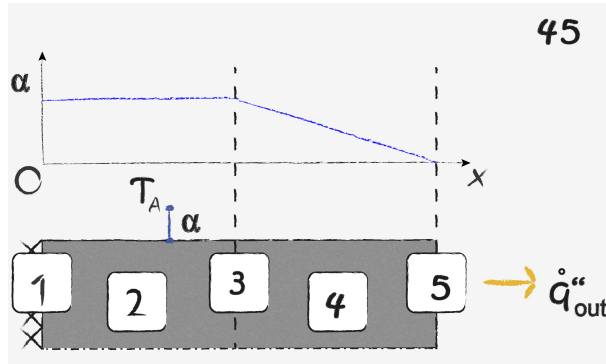


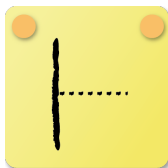


Heat Conduction: Task 45



The image describes a rectangular body with constant heat conduction coefficient from the left to the middle part and then decreasing linearly to the right. The wall on the left side is adiabatic and the heat flows out from the right side.

1



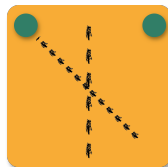
On the adiabatic wall the temperature gradient is zero.

2



On the adiabatic wall the temperature gradient is zero and due to the heat loss, the temperature gradient decreases from left to right.

3



The temperature gradient is the same at the interface.

4



Due to heat loss through convection, the temperature gradient decreases from left to right.

5



The temperature gradient at the end of the material is decreasing.