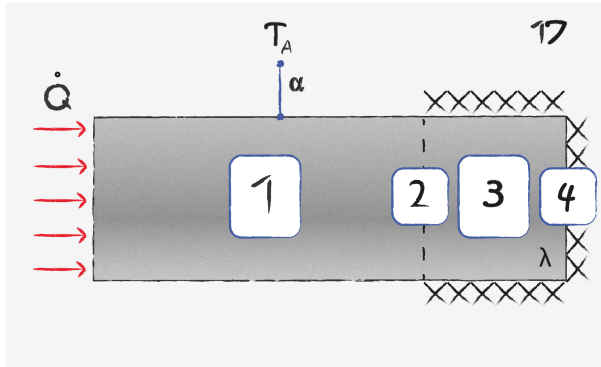




Heat Conduction: Task 17



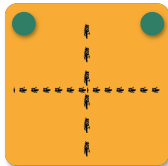
The image describes a rectangular body with a heat flux from left to right and heat loss through convection. The right part is isolated from all directions.

1



Due to the heat loss through convection, the temperature gradient decreases from left to right and to meet the condition at the interface (no heat transport), the temperature gradient must be zero there.

2



There is no heat transport through the interface so the temperature gradient is zero.

3



There is no heat transport through this area (due to the isolation) so the temperature gradient is zero.

4



There is no heat transport through the interface so the temperature gradient is zero.