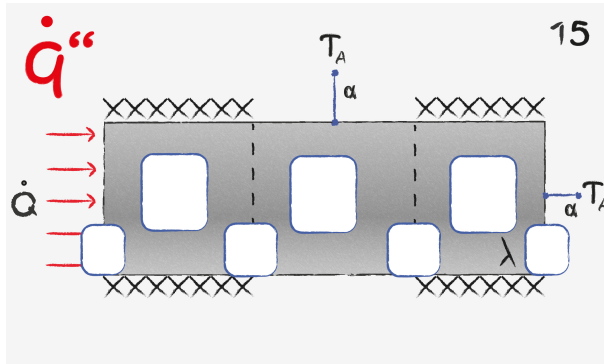
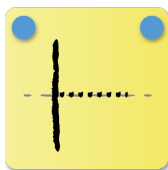


# Heat Loss: Task 15



The image describes a rectangular body with an imposed heat flux on the right and heat loss through convection in the central and right surface. The walls on the top and bottom of the left and right sections are adiabatic.

1

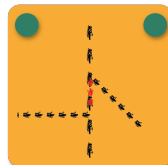


The adiabatic walls prevent any kind of heat loss, such that heat loss equals zero.

2



3



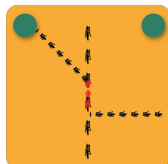
The transition from adiabatic to convective wall is marked by a jump in heat loss from zero to positive.

4



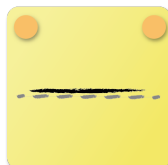
Convective heat loss is positive, since heat is brought into the system via conduction. Decreasing temperature difference of fin and environment causes a decrease of convective heat loss.

5



At the transition from convective to adiabatic wall, heat loss jumps to zero again.

6



7

