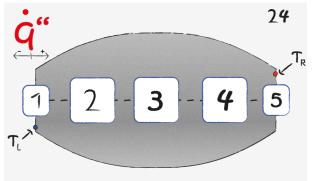
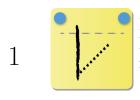


Axial Heat Flux: Task 24



The image describes a body with parabolic area and maximum temperature on the right side.



Higher temperature on the body's right side indicates heat flow towards the left, which leads a negative heat flux.



Increase in cross section yields a deacrease in the absolute value of the specific heat flux. Taken into account the negative sign, specific heat flux increases.



The middle section has a constant area, such that the specific heat flux is constant too.



Linear decrease of the area causes the absolute value of specific heat flux to increase. The negative sign yields in fact a heat flux with a negative gradient.



Since heat is conducted from right to left, the heat flux on the right boundary is still negative.