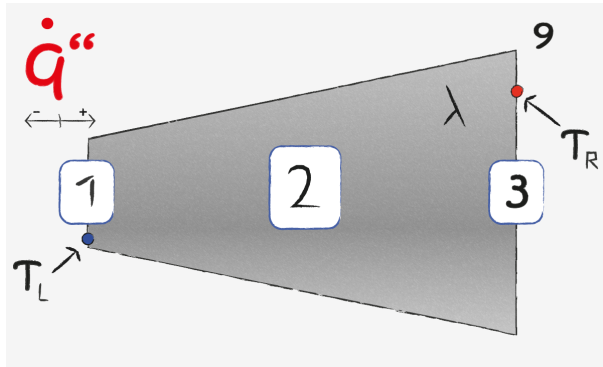




## Axial Heat Flux: Task 9



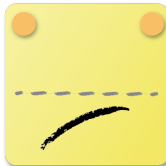
The image describes a body whose area increases linearly from left to right. The highest temperature is on the right side.

1



Due to higher temperature at the right, heat is conducted to the left, which results in a negative heat flux.

2



Linear increase of area leads to a decrease of specific heat flux proportional to  $\frac{1}{r}$ .

3

