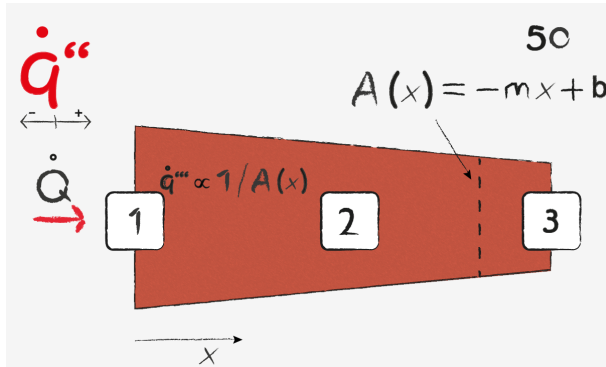


## Axial Heat Flux: Task 50



The image describes a solid body, whose cross section area decreases linearly from left to right. The body consists of a volumetric heat source with specific heat production proportional to  $\frac{1}{A(x)}$ .

1



The imposed heat flux yields a positive profile.

2



The effects of heat source and change in cross section area add up to an increasing specific heat flux profile which is getting steeper to the right.

3



The profile continues the described behavior up to the right boundary.