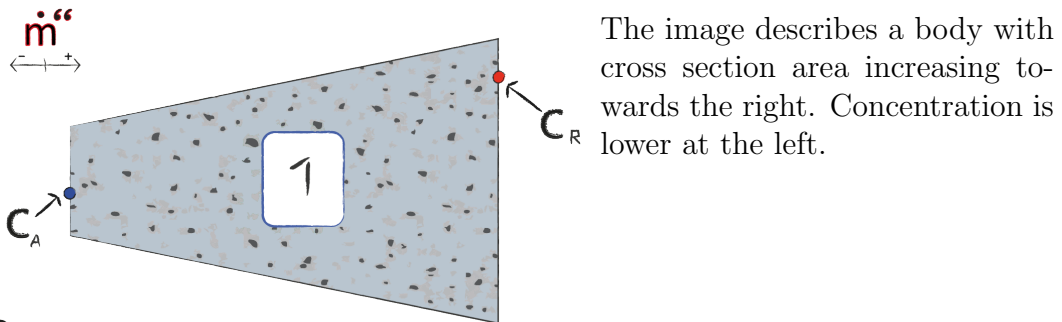# Mass Flux Profile: Task 6

$\dot{m}''$

6

The image describes a body with cross section area increasing towards the right. Concentration is lower at the left.

1

As concentration is lower at the left, mass is transported in this direction and hence, negative. Mass conservation states, that mass flux is constant. For increasing area this is absolute specific mass flux is decreasing.

$$\dot{m}'' = \frac{\dot{m}}{ax+b}$$