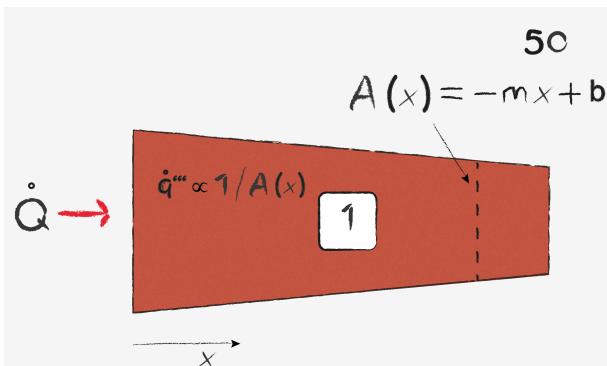


Heat Conduction: Task 50



The image describes a trapezoid with area decreasing linearly from left to right and the heat production is inversely proportional to the area. Consider the heat flux is coming from the left.

1



The area decreases with x and the heat production is inversely proportional to the area so both effects cancel each other and the temperature gradient decreases linearly from left to right