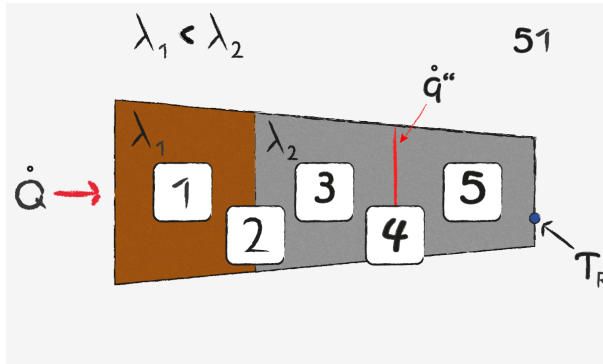


Heat Conduction: Task 51



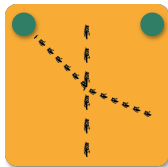
The image describes two trapezoid and from left to right area is decreasing. Heat flux is coming from the left hand side and there is a heat source in the middle of the second trapezoid. Consider λ differences and low temperature on the right.

1



The area decreases from left to right so the temperature gradient increases.

2



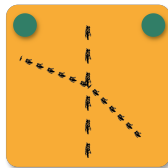
λ_1 is smaller than λ_2 which means the Temperature gradient in 1 is steeper than in 2.

3



The area decreases from left to right so the temperature gradient increases.

4



Due to the heat production, the temperature gradient will be steeper from left to right.

5



The area decreases from left to right so the temperature gradient increases.