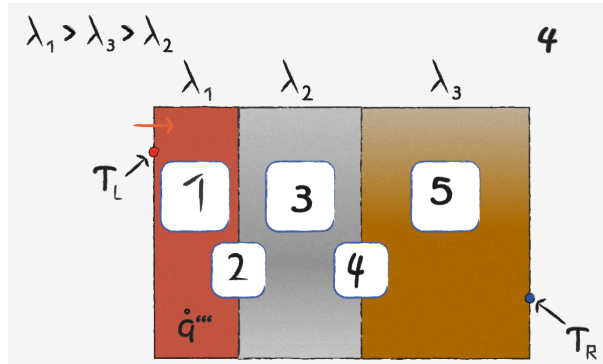




## Heat Conduction: Task 4



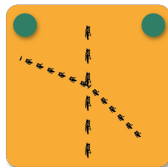
The image describes a rectangular body with a heat source on the left side. The highest temperature is on the left.

1



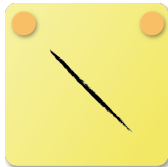
Due to the constantly increasing heatflux (heat source), the temperature gradient increases constantly from left to right.

2



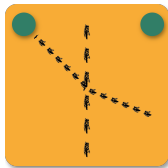
$\lambda_2$  is smaller than  $\lambda_1$  which means the Temperature gradient in 2 is steeper than in 1

3



According to Fourier's law. At constant heat conductivity and area, the temperature gradient decreases linearly.

4



$\lambda_2$  is smaller than  $\lambda_3$  which means the Temperature gradient in 2 is steeper than in 3

5



according to Fourier's law. At constant heat conductivity and area, the Temperature gradient decreases linearly