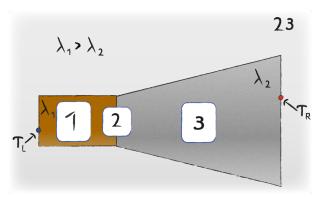


Heat Conduction: Task 23



The image describes a rectangular body connected to a body with area increasing linearly from left to right and with lower thermal conductivity. The maximum temperature is on the right side.



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



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



3

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