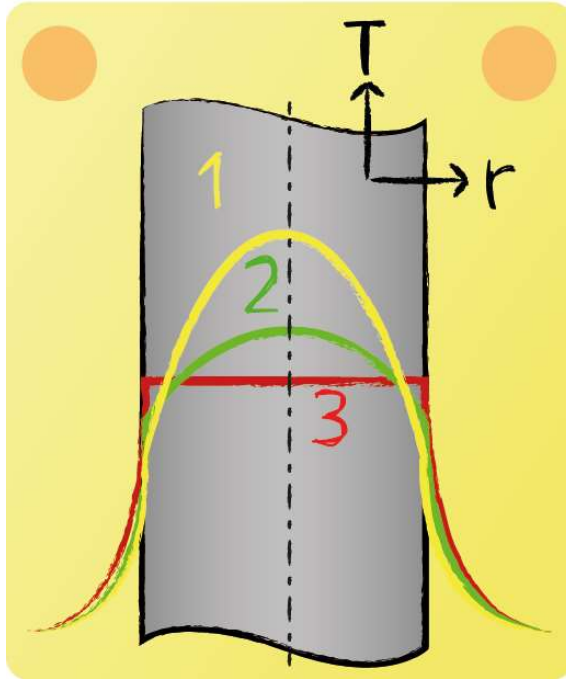


Lecture 15 - Question 4



Which of the following temperature profiles is most closely to the temperature profile of the thermometer?



Temperature profile 3.

The lumped capacity model was applicable, since $Bi \ll 1$. When $Bi \ll 1$ the difference of the temperature within a body is so small, that it is negligible. For that reason a homogeneous temperature can be assumed.