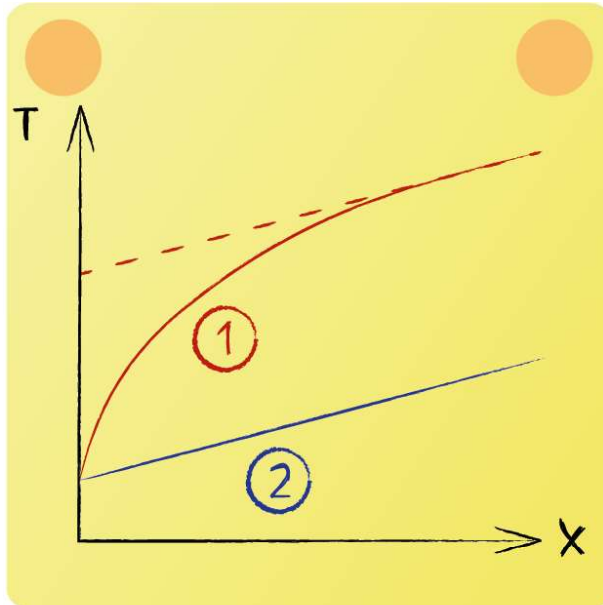


Lecture 7 - Question 3



Assign the correct numbers to the temperature profile of the wall and to the temperature profile of the fluid.



First the flow will pass through the entrance region. In this region, the wall temperature will increase more rapidly than the fluid temperature. Once fully developed, the temperature difference between the wall and fluid temperature remains constant.

Note that a constant heat flux is transferred towards the flow, and therefore the wall temperature should be higher.