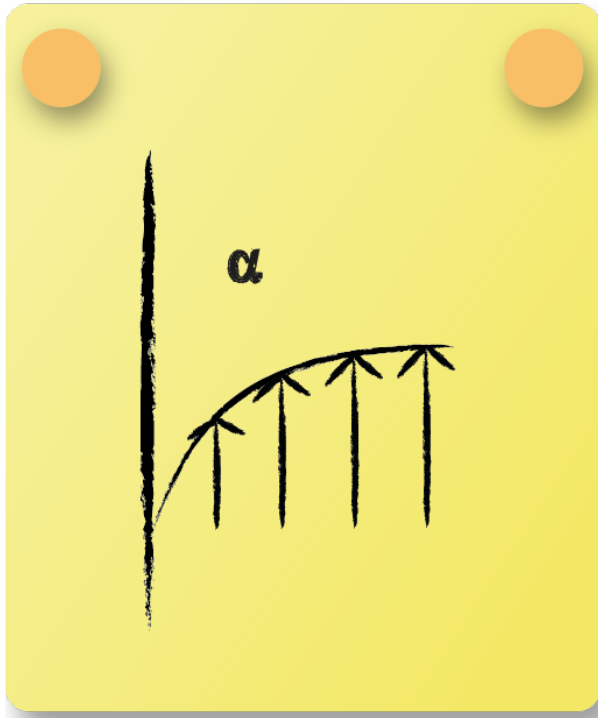


Lecture 7 - Question 1



Which statements are true regarding convection?



Convection describes heat transport within fluids that is caused by macroscopic motions. Convection can be artificially generated by pumps or fans for example and is then called forced convection. Moreover convection occurs in fluids due to differences in density which together with gravitational forces cause a so called natural convection. Convection is partly based on heat conduction within the fluid, especially at a wall where the no slip condition must be satisfied, heat transfer relies on conduction.