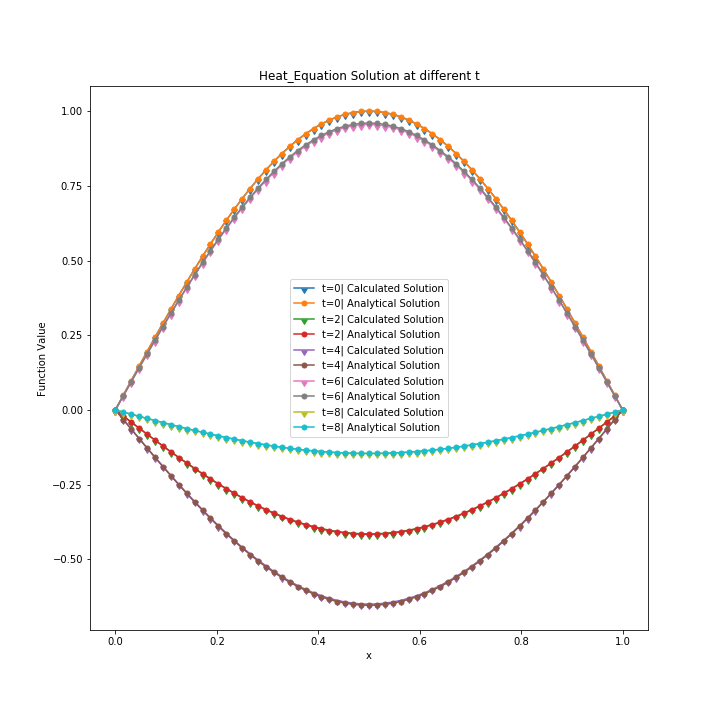
ACS-2 Bonus Lab

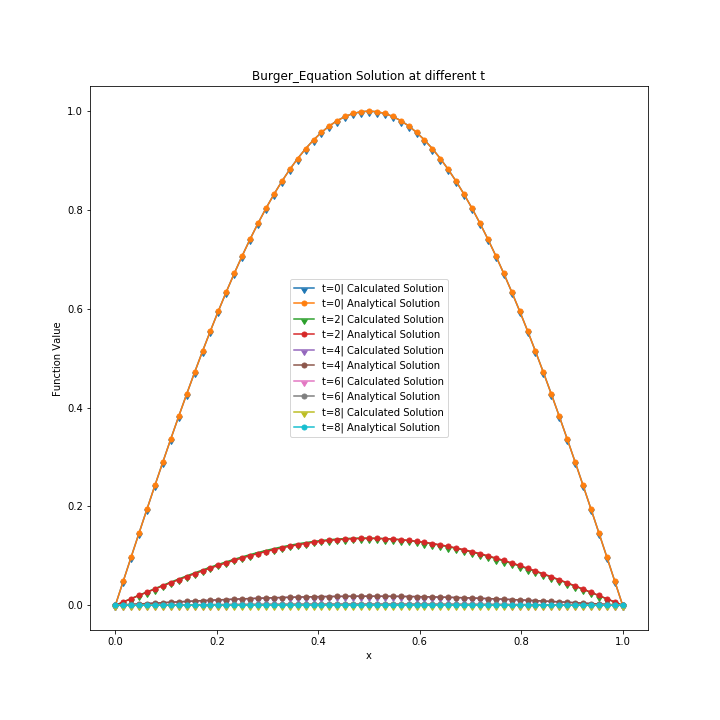
Pankaj Chouhan

Problem 1:



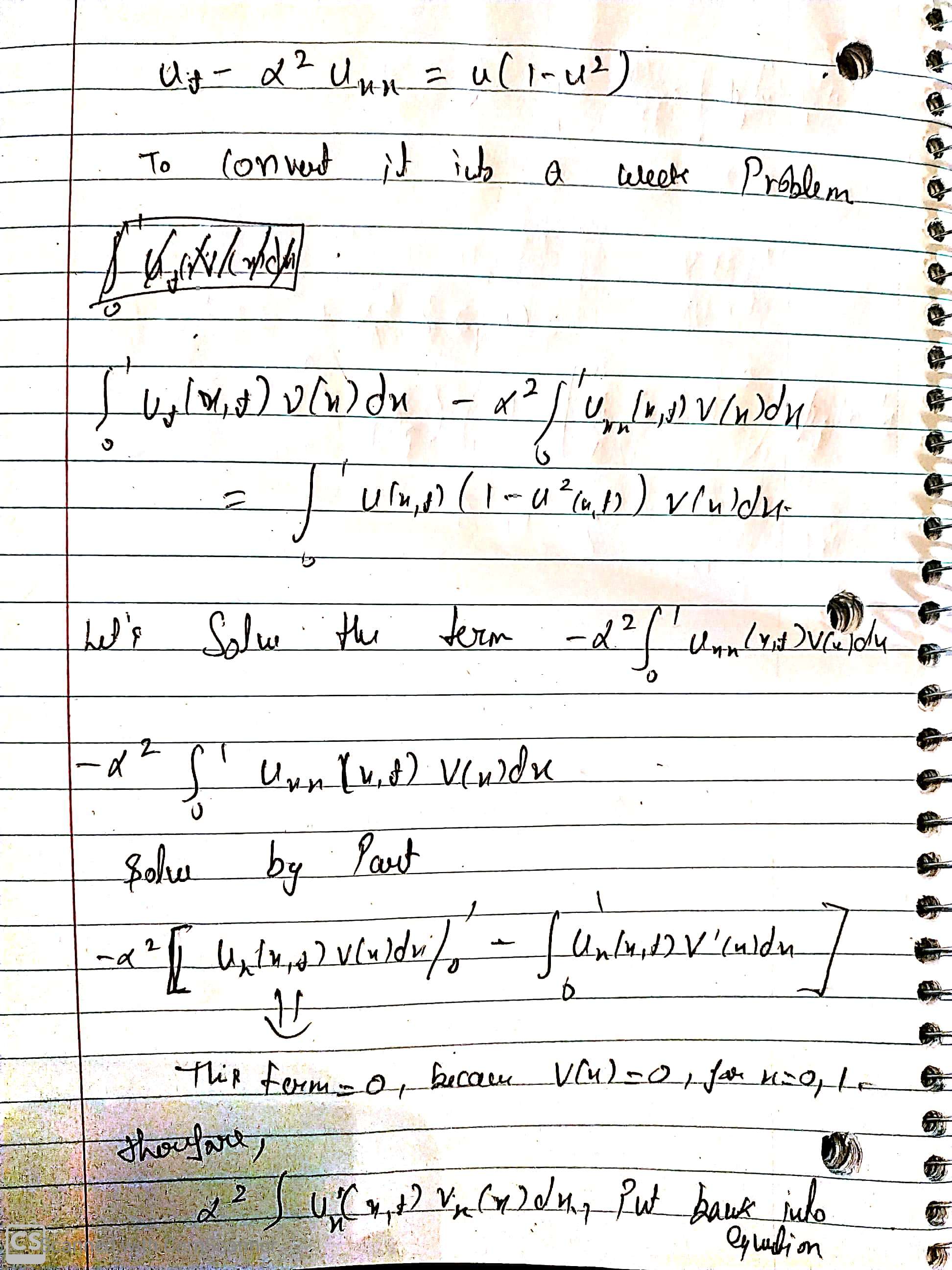
The simulation for the heat equation solution at different t is available at Heat\_Equation.mp4

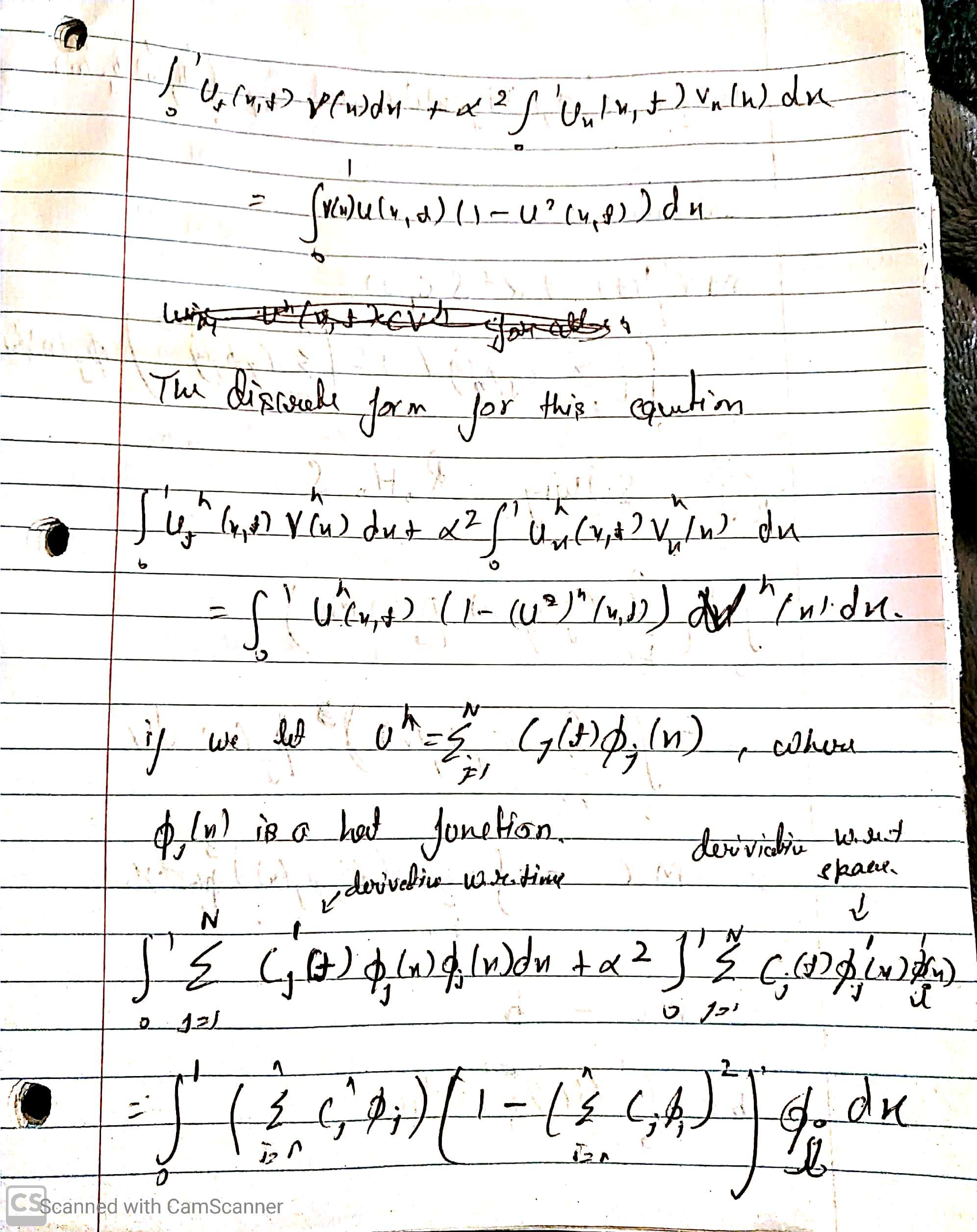
Problem 2:

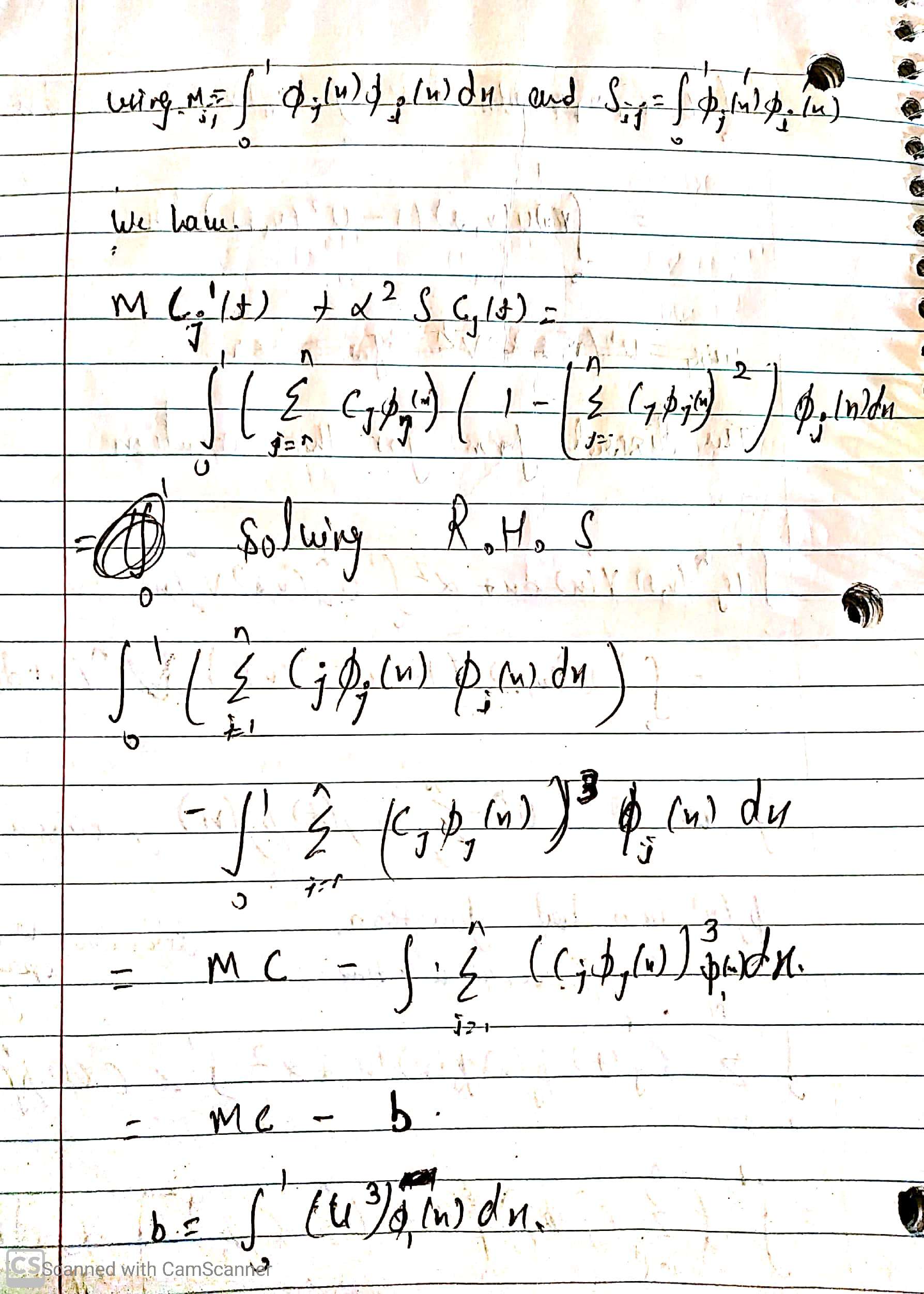


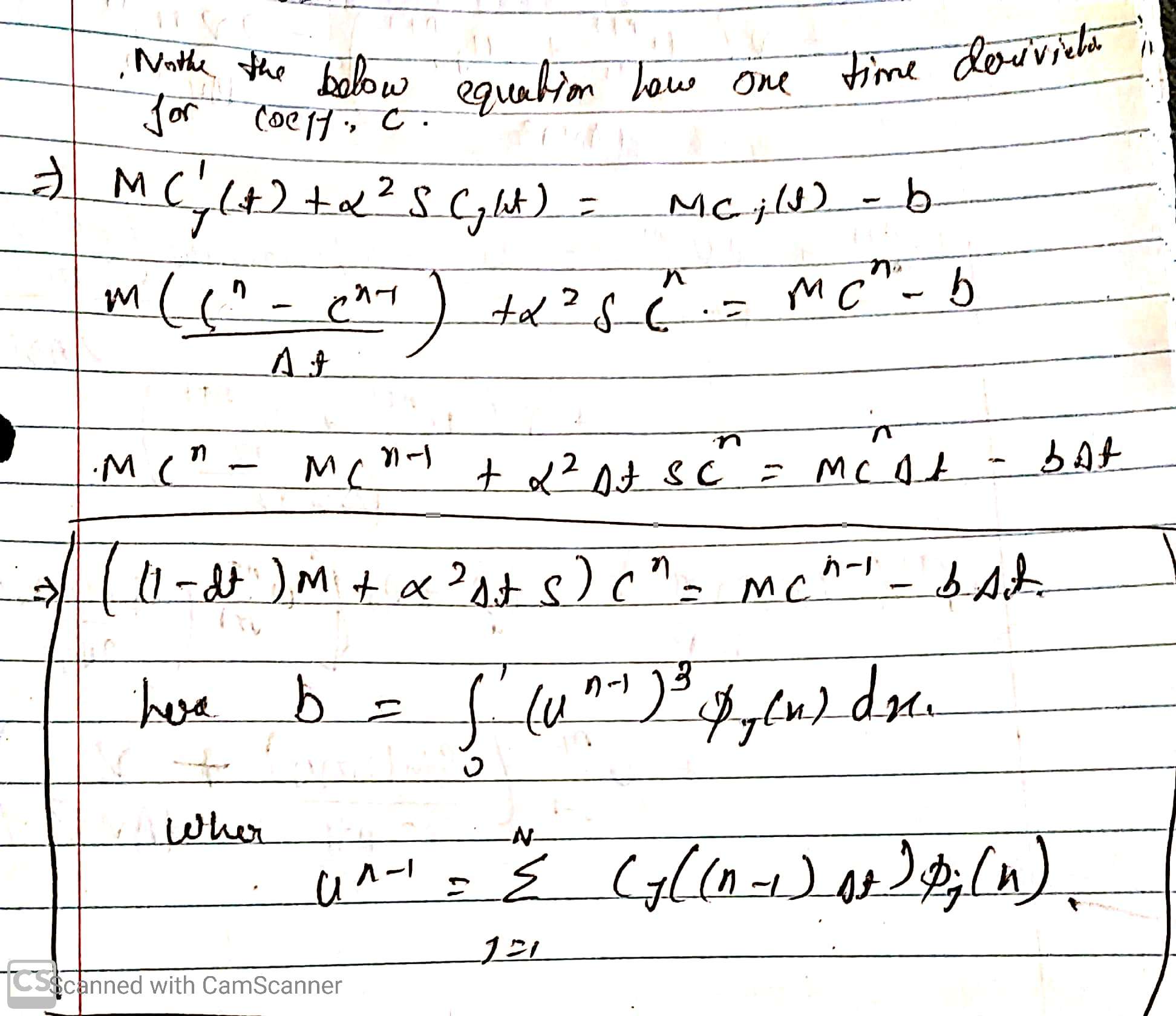
The simulation for Burger’s equation solution at different t is available at Burgers\_Equation.mp4

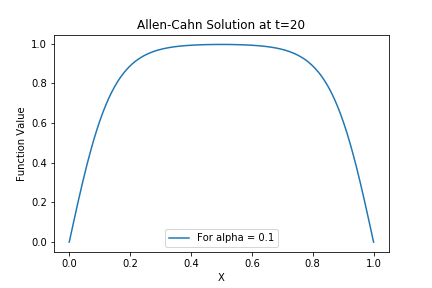
Problem 3.

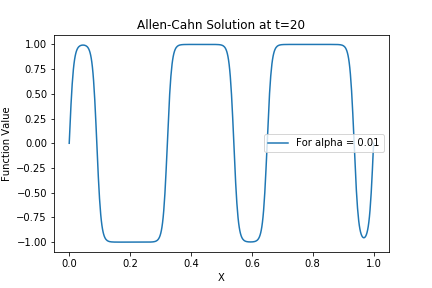


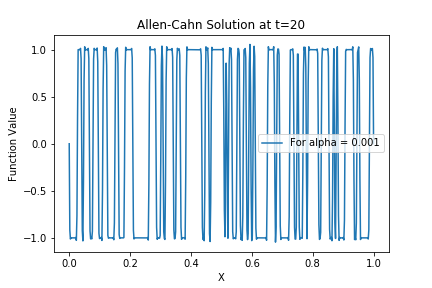












The simulation for Allen-Cahn equation solution at different t is available at Allen\_alpha\_0.1.mp4, Allen\_alpha\_0.01.mp4 and Allen\_alpha\_0.001.mp4 for alpha value 0.1,0.01,0.001 respectively.