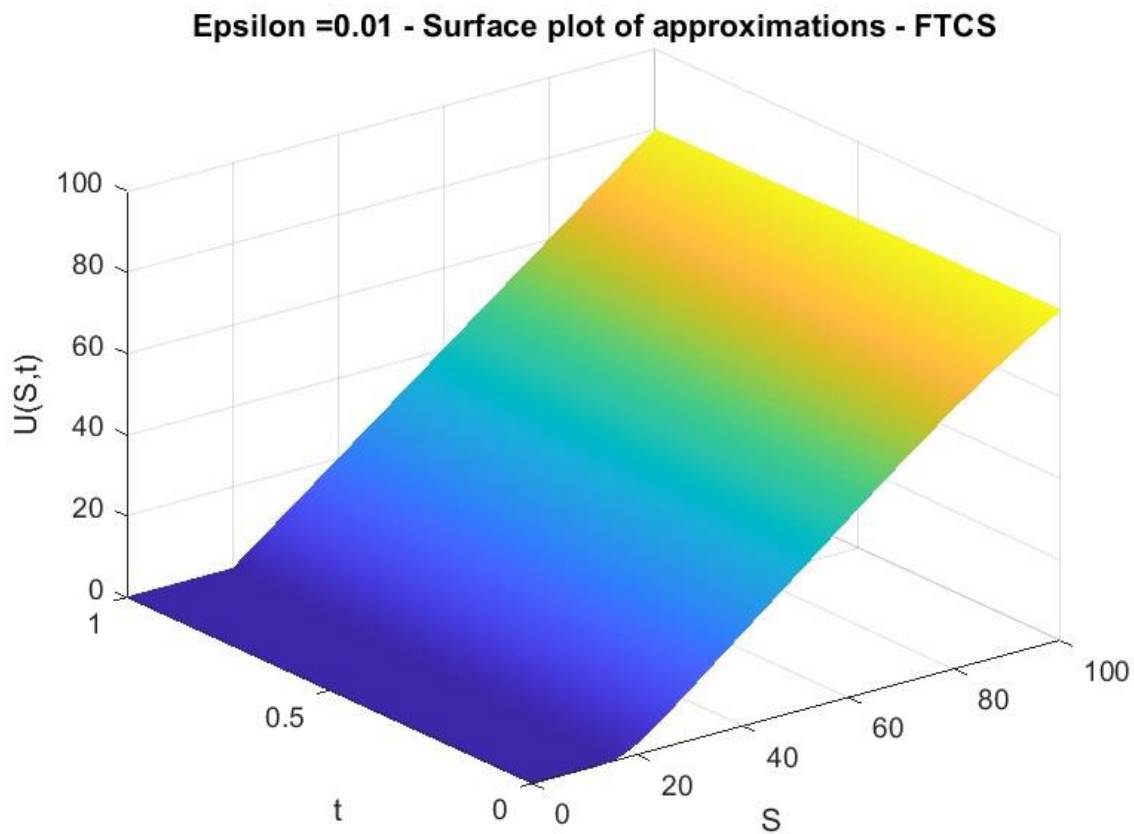


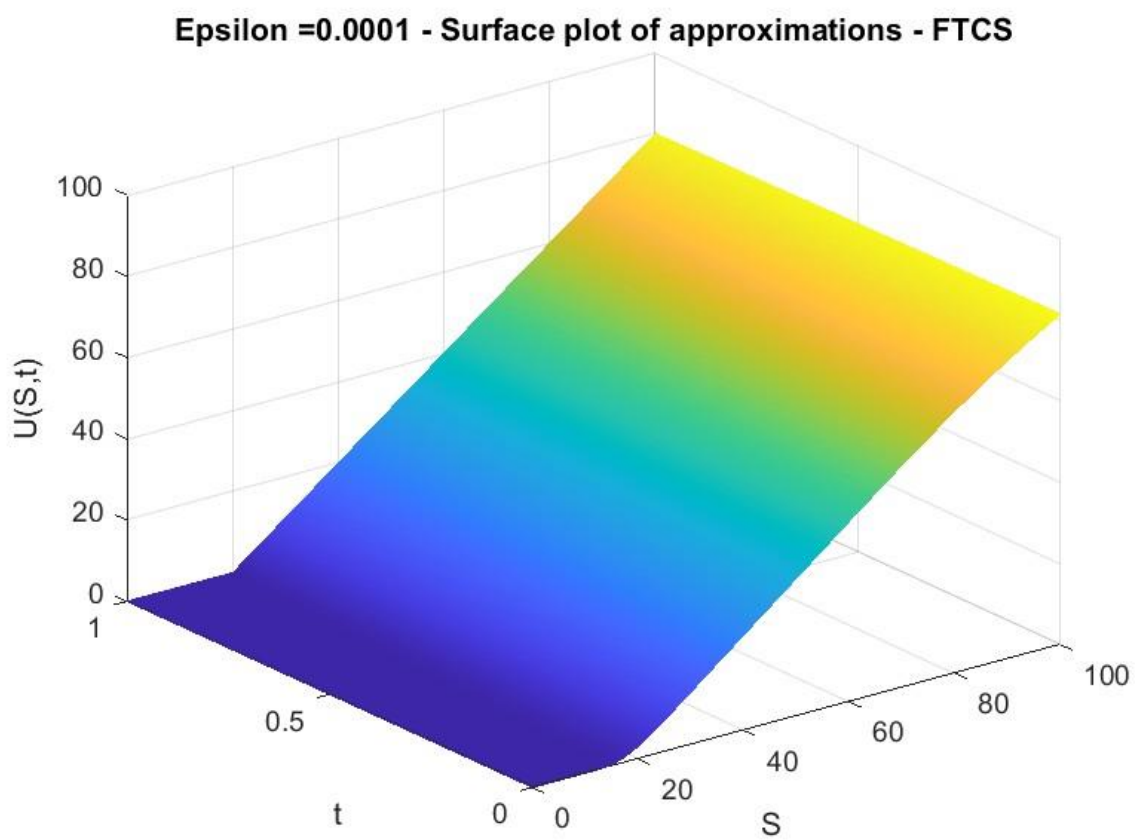
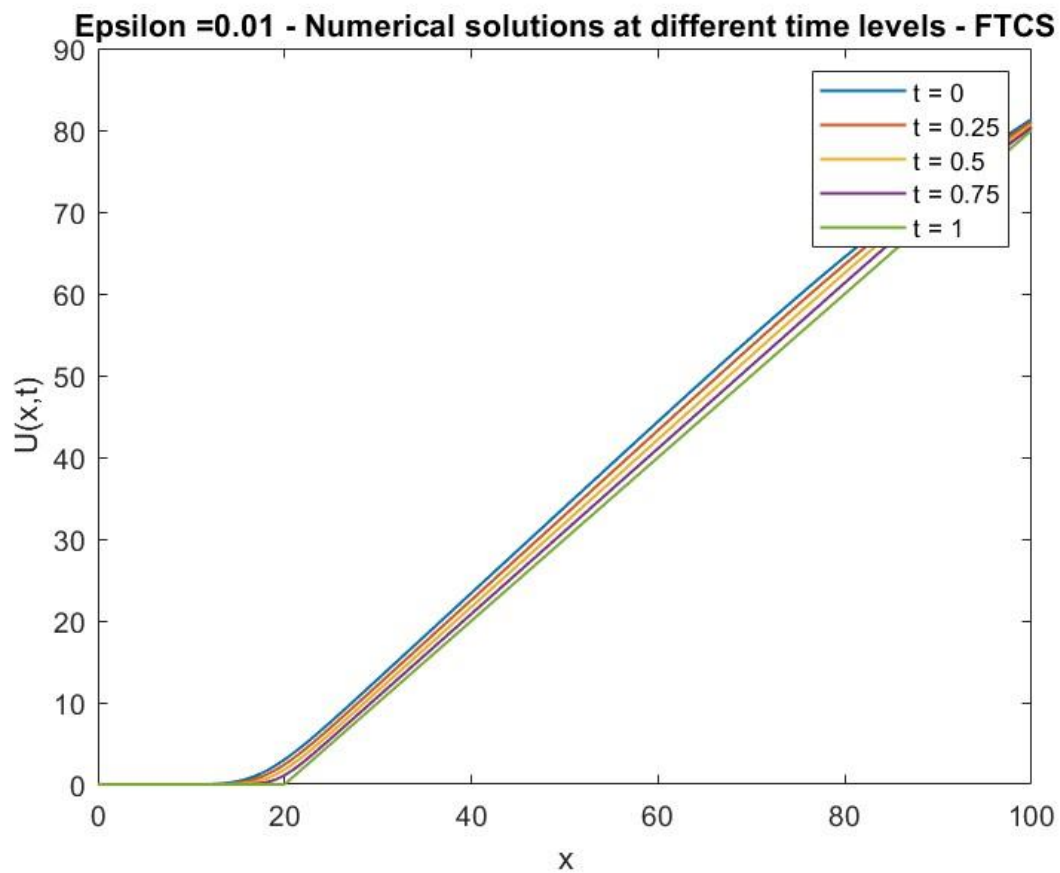
Lab – 03

Dipanshu Goyal

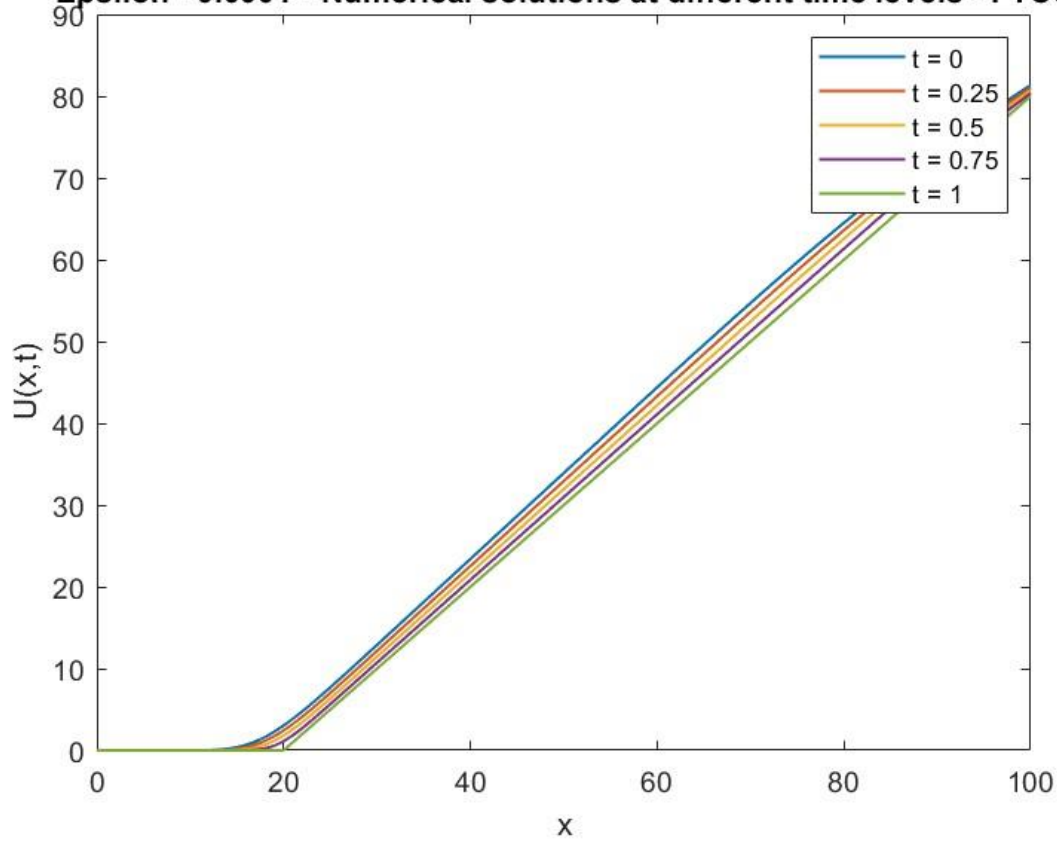
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Question – A

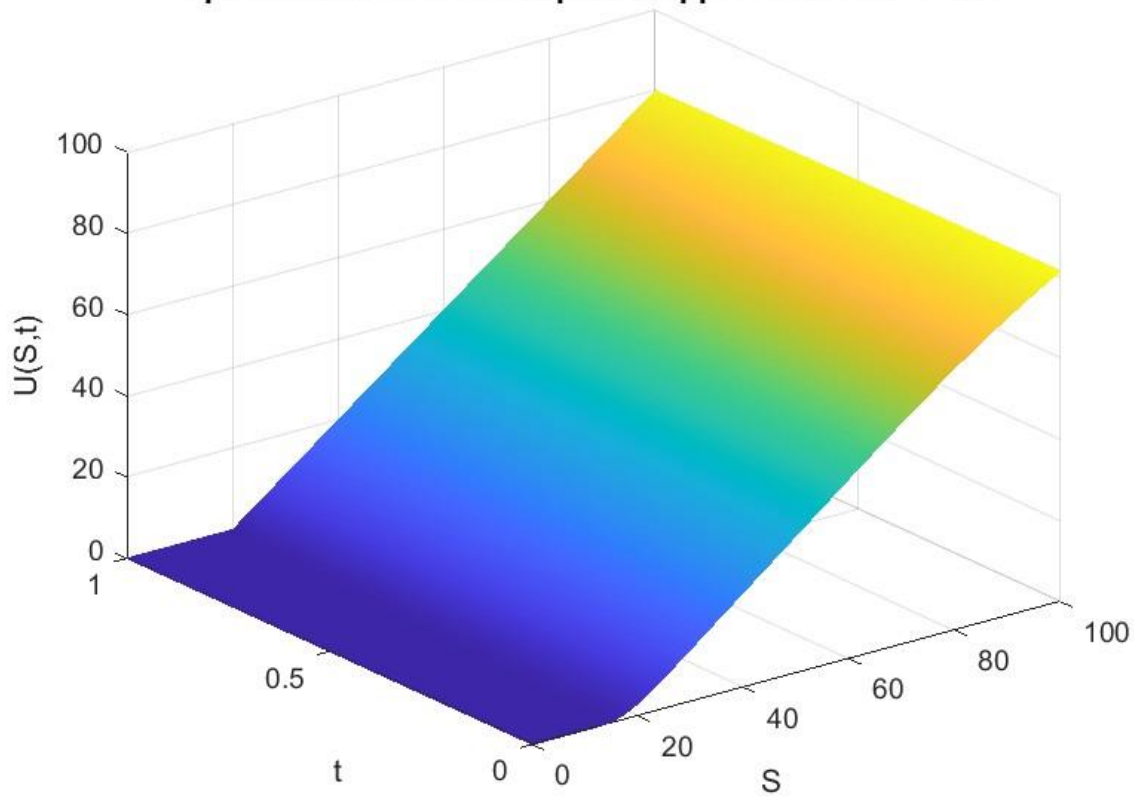




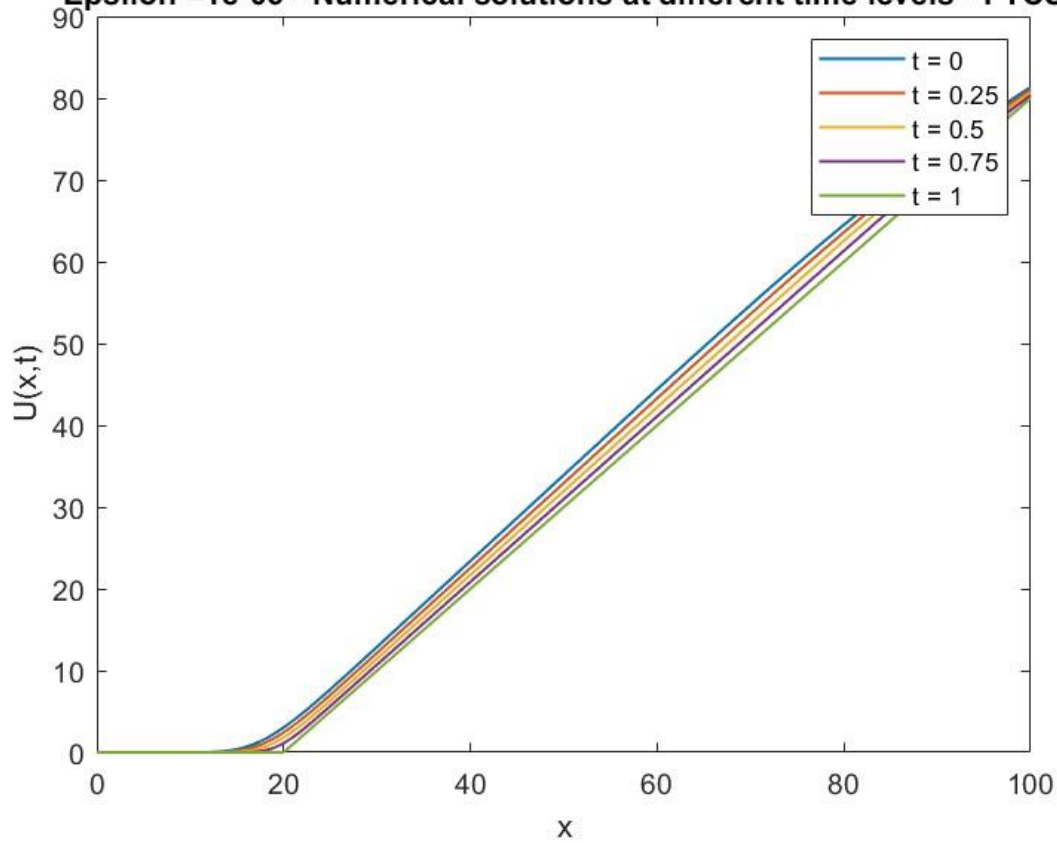
Epsilon =0.0001 - Numerical solutions at different time levels - FTCS



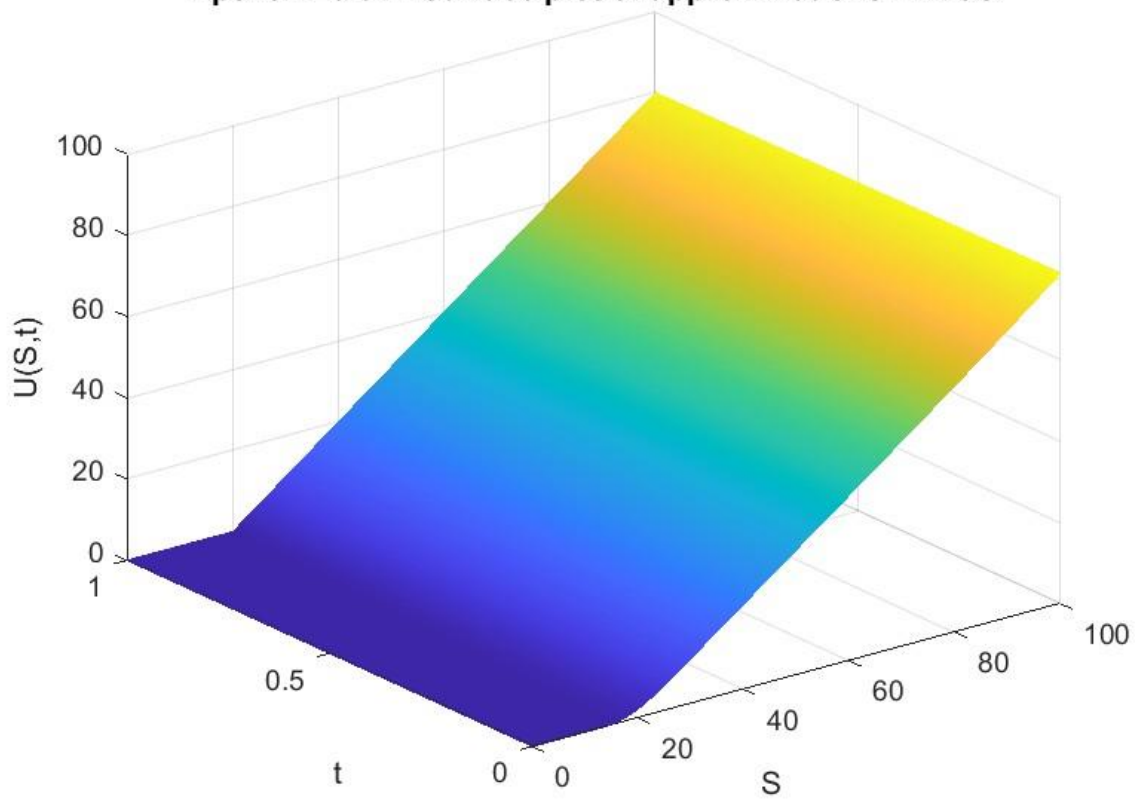
Epsilon =1e-06 - Surface plot of approximations - FTCS

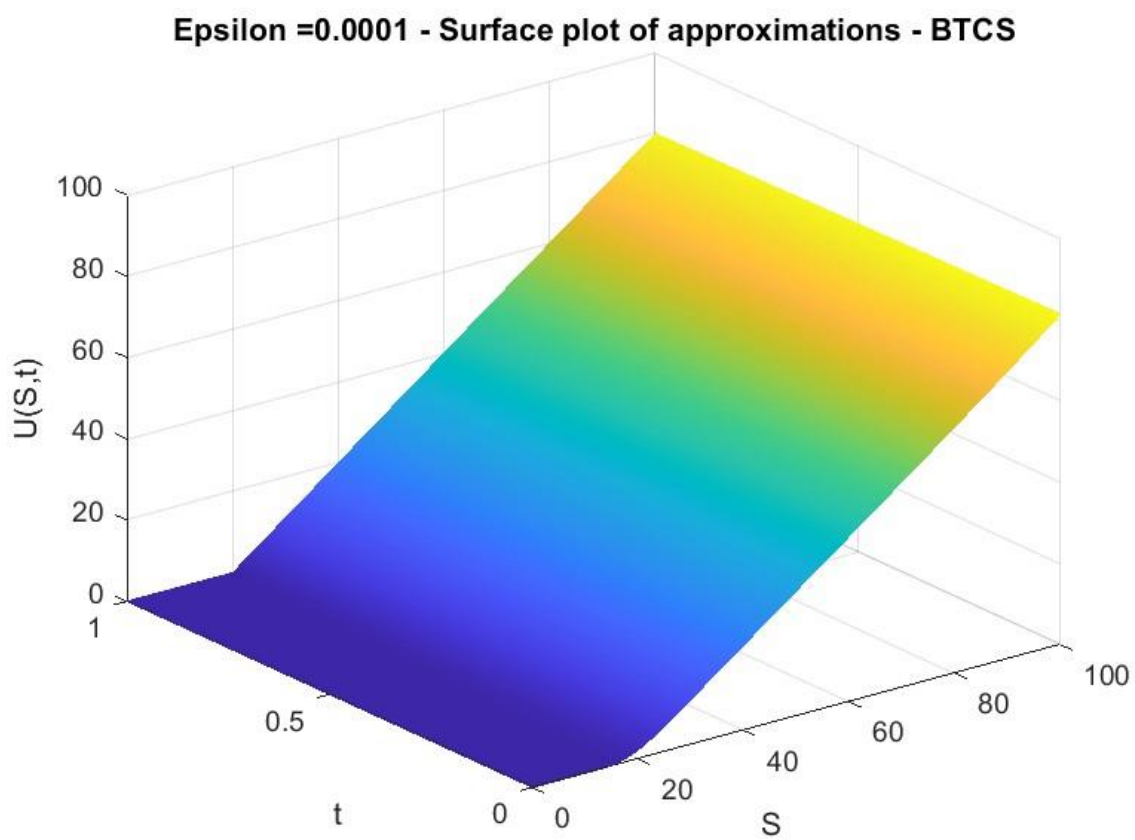
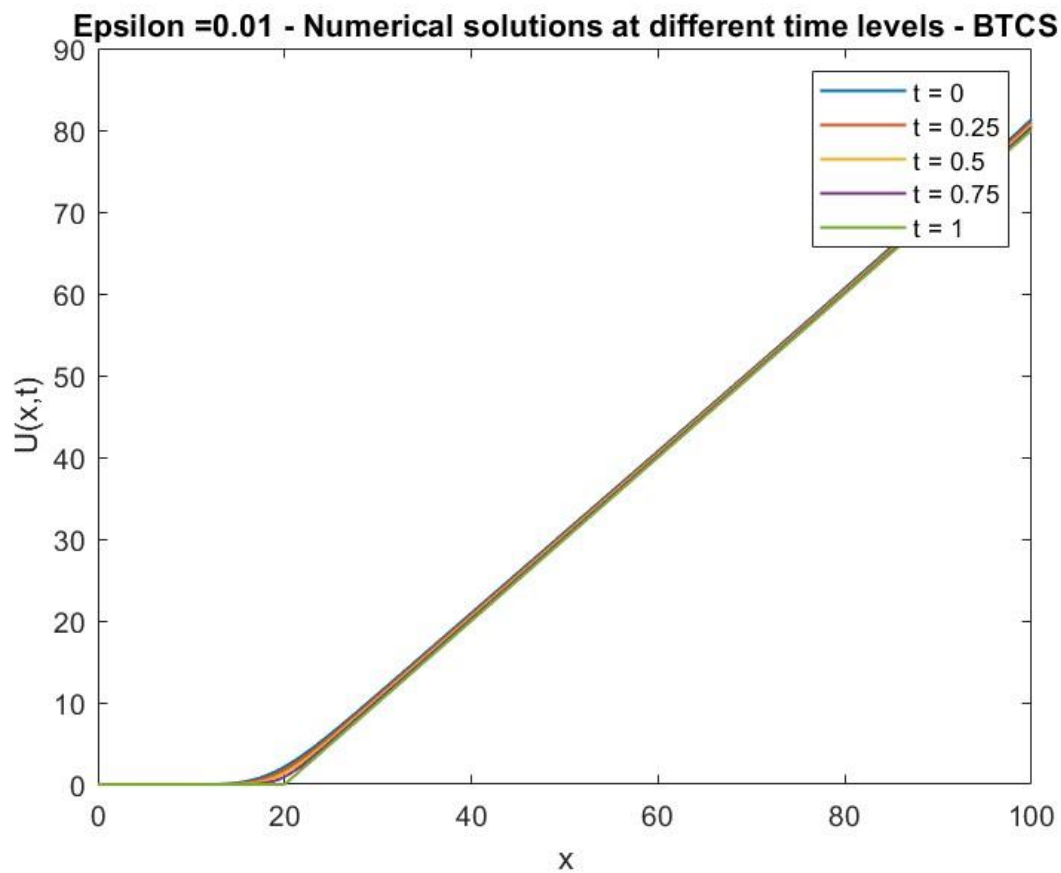


Epsilon =1e-06 - Numerical solutions at different time levels - FTCS

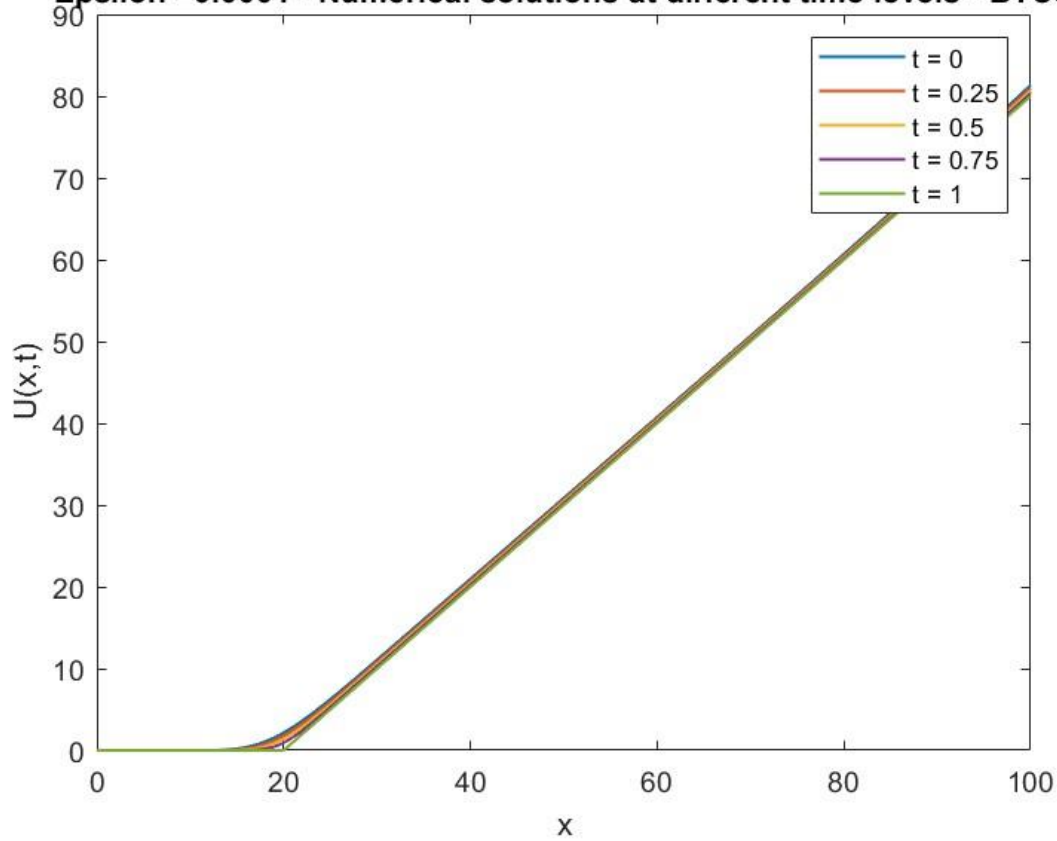


Epsilon =0.01 - Surface plot of approximations - BTCS

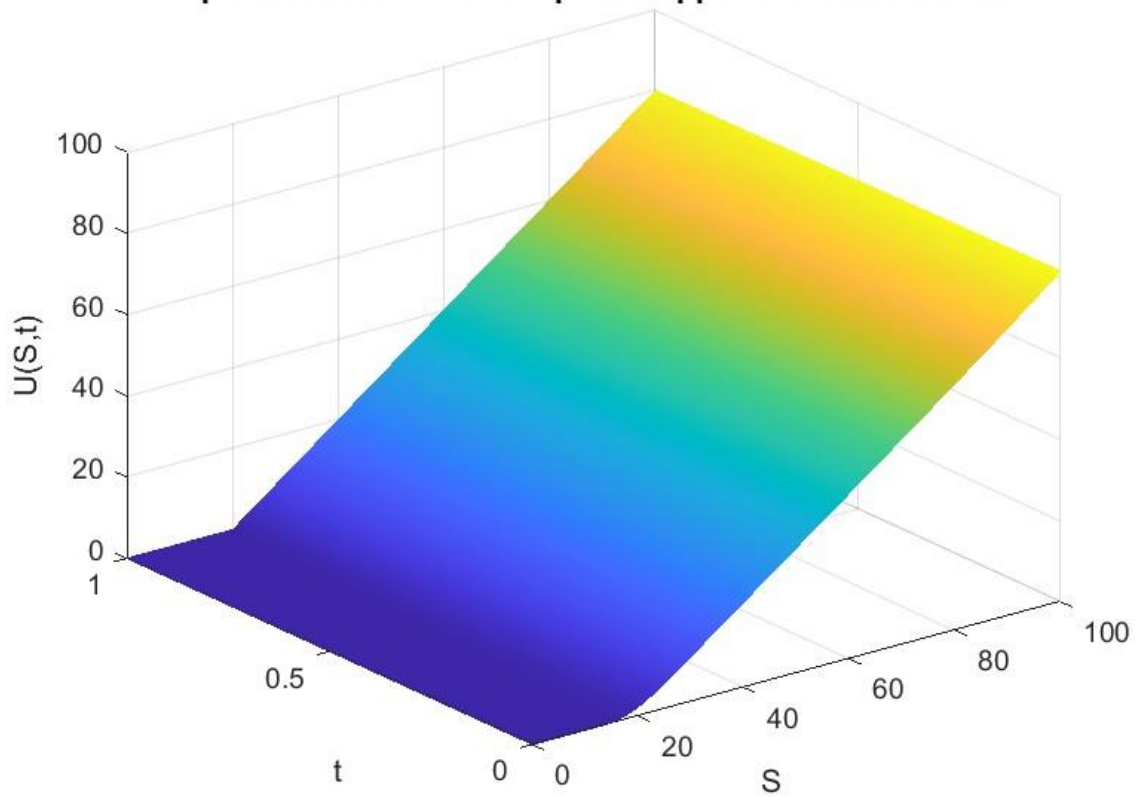


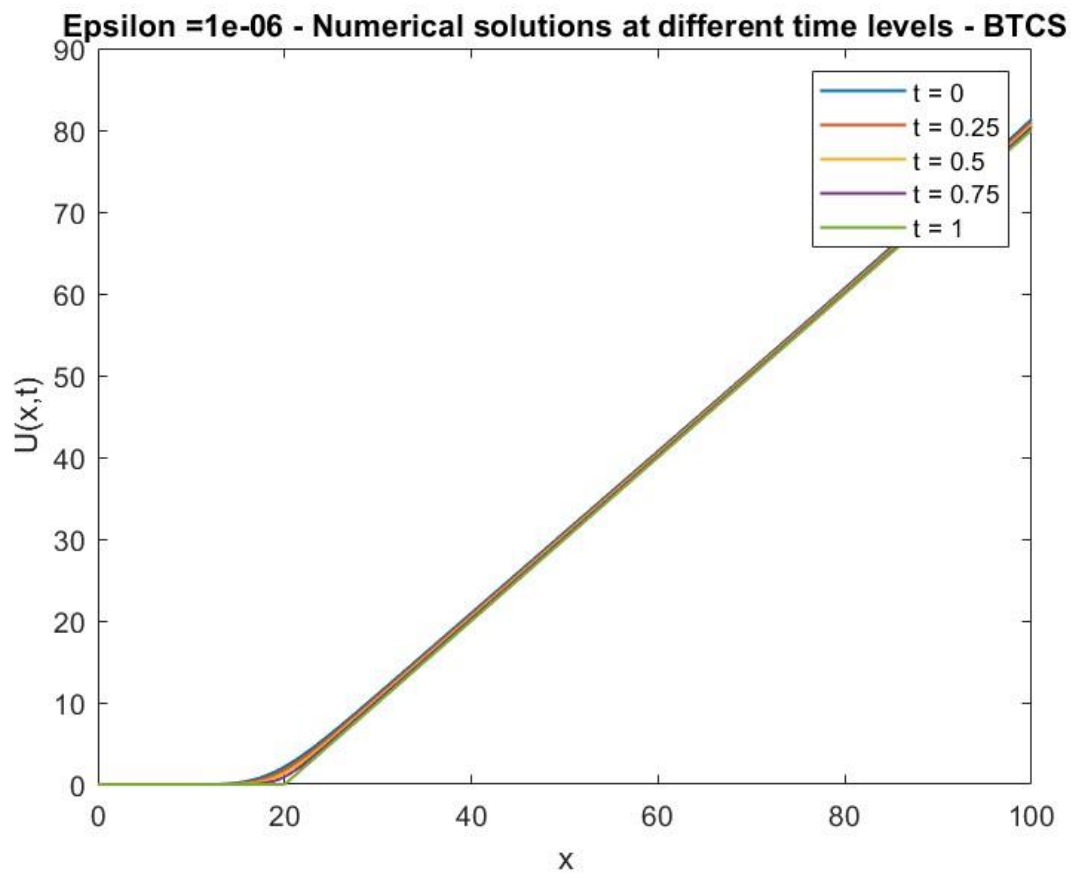


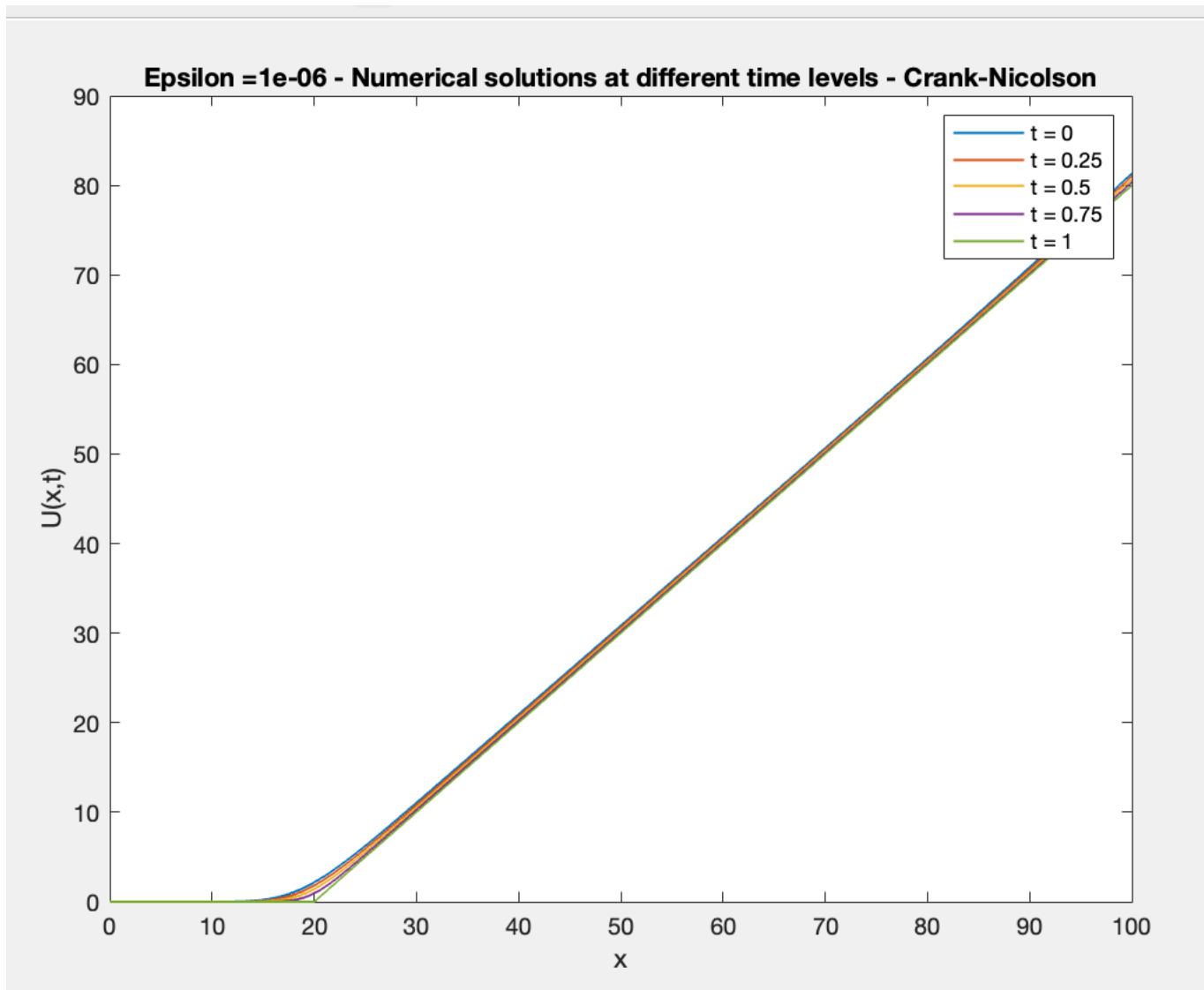
Epsilon =0.0001 - Numerical solutions at different time levels - BTCS

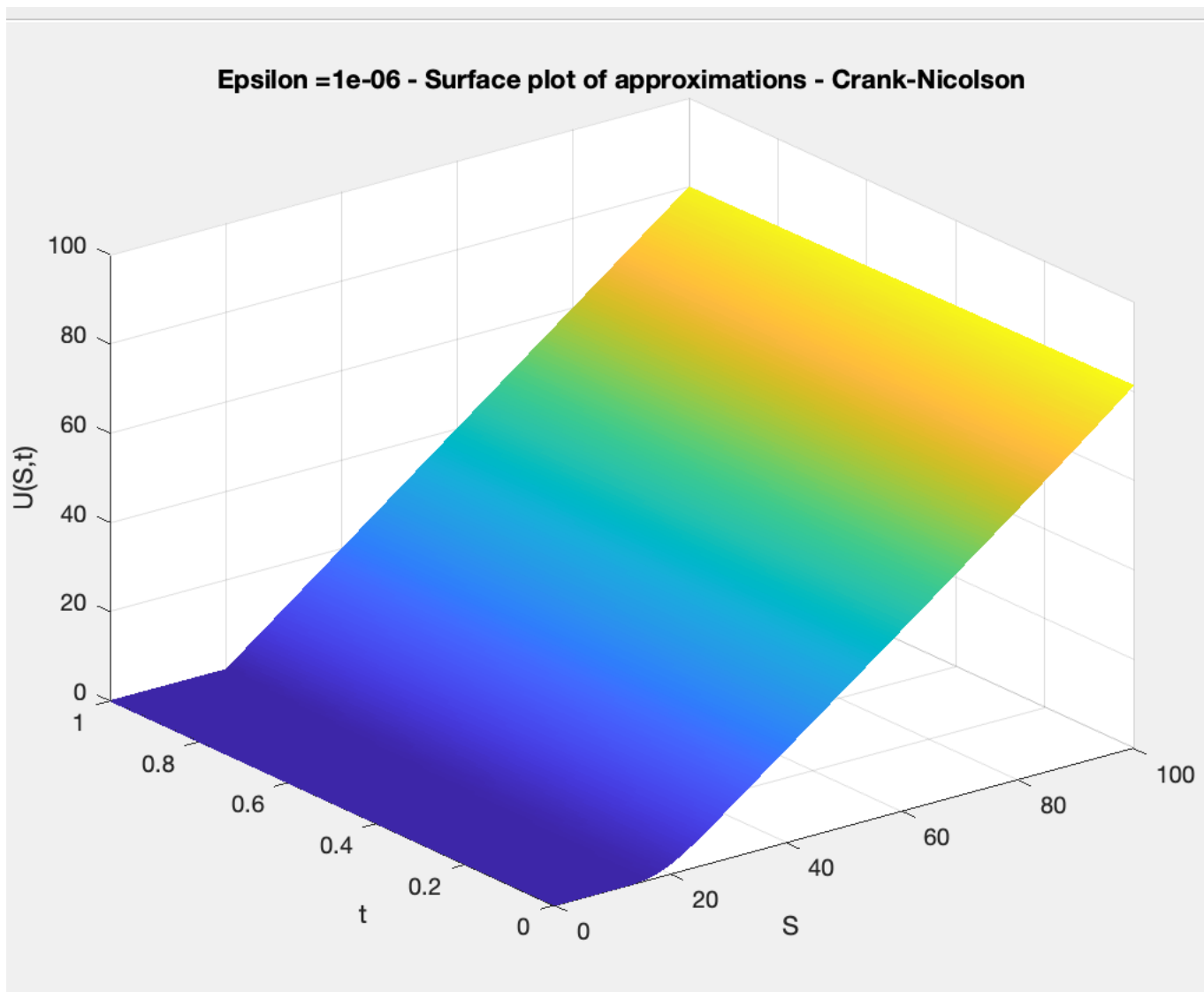


Epsilon =1e-06 - Surface plot of approximations - BTCS



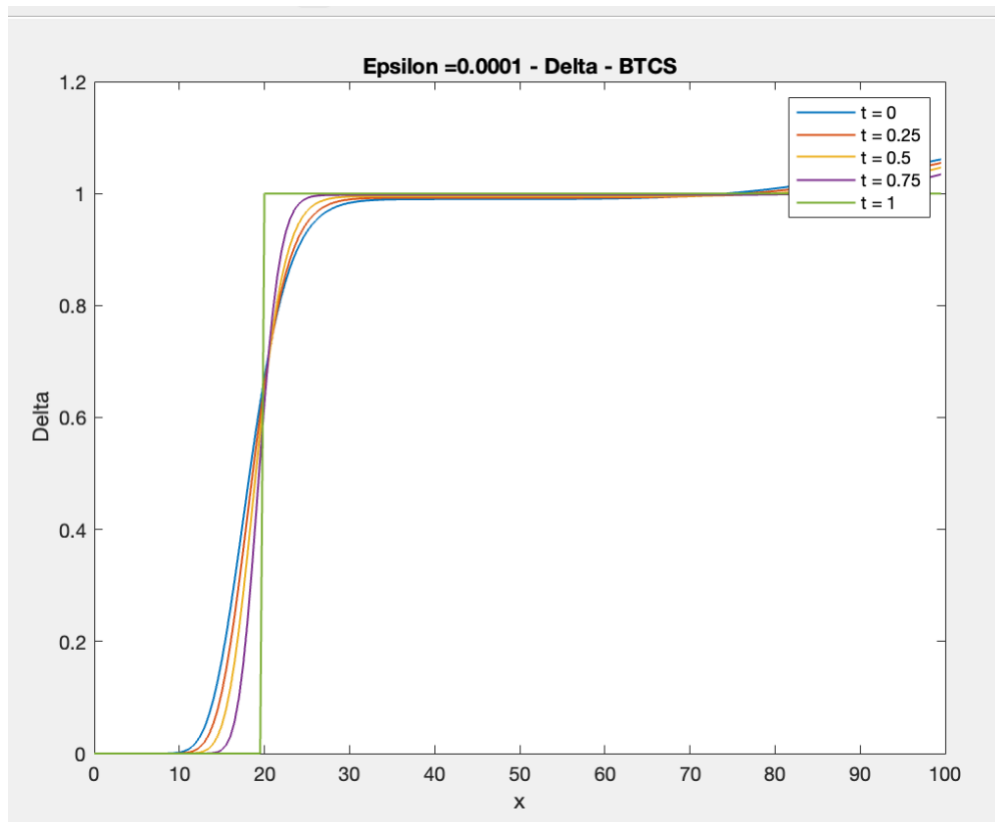
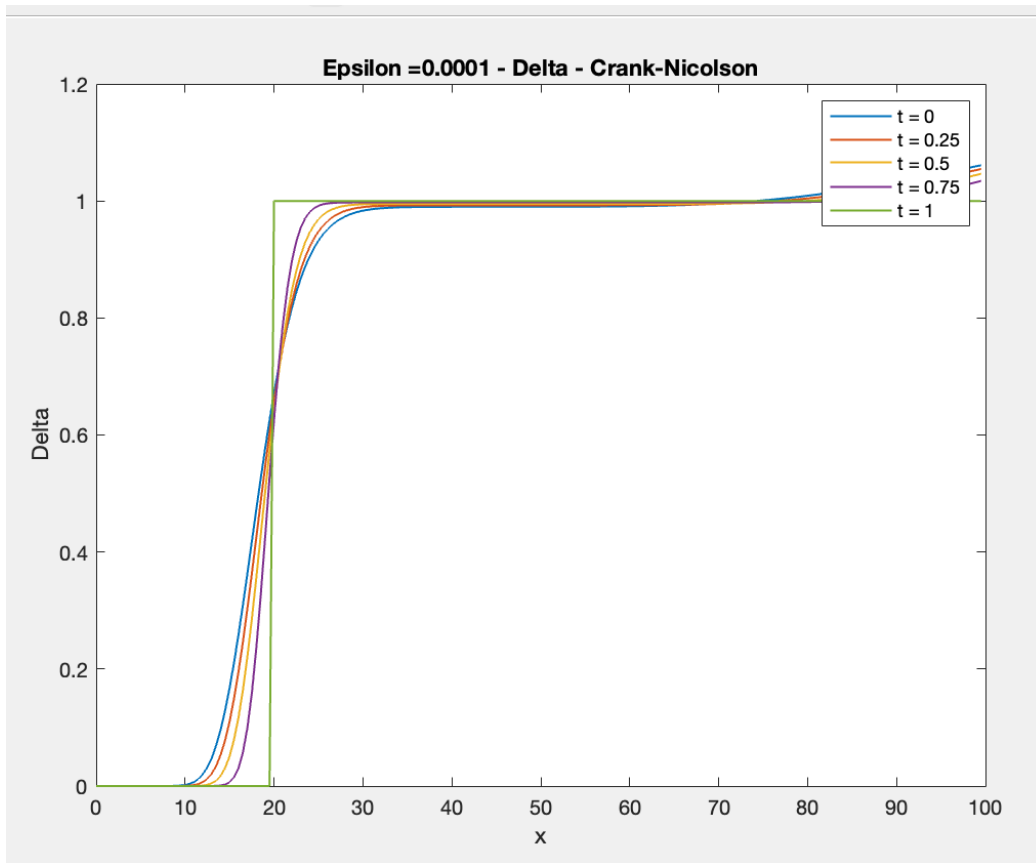


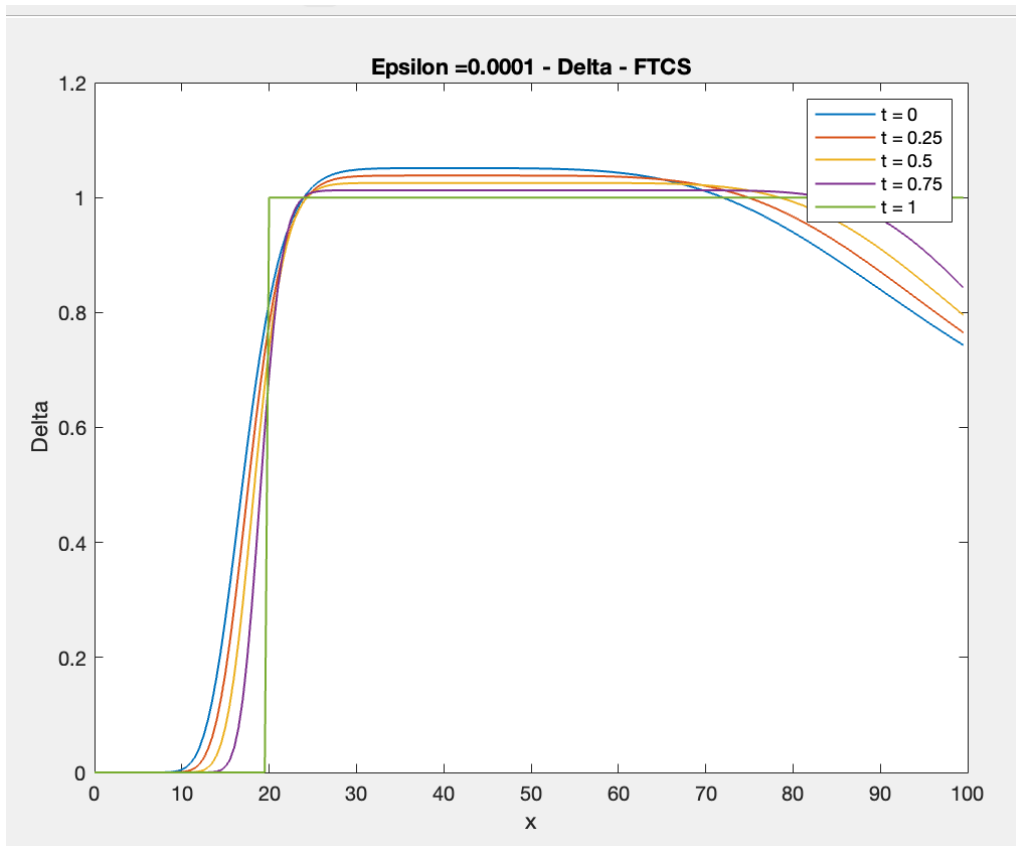




Question – B

Plots for Delta





Plots for Gamma

