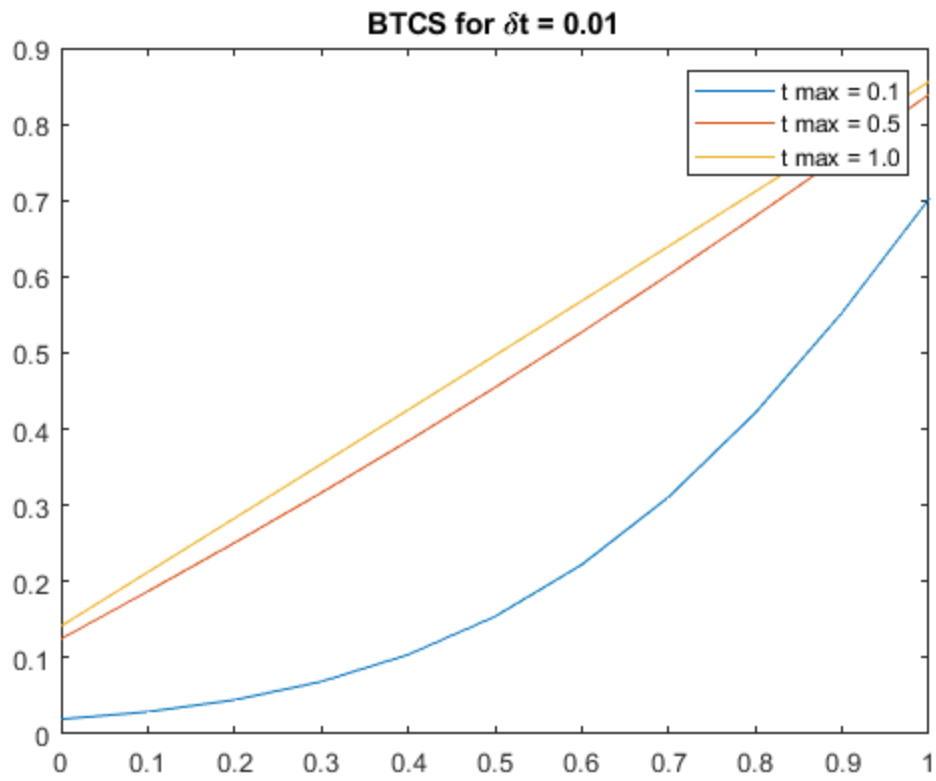
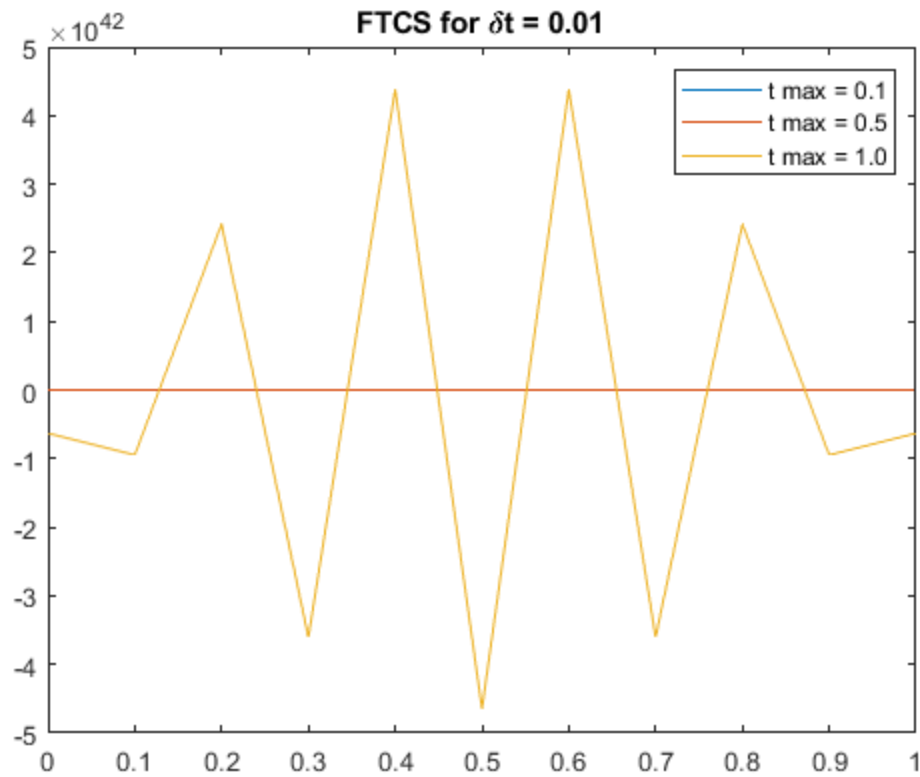


The first two plots show the BTCS and FTCS solutions for time step 0.01 seconds.





As is clearly visible, the FTCS solution shows a lot of error because the scheme is numerically unstable.

The next two plots show the BTCS and FTCS solutions for time step 0.001 seconds.

