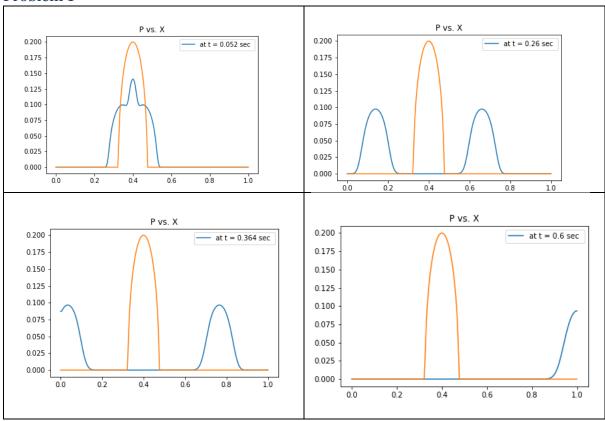
Assignment 02

M Vishnu Sankar 18B030013

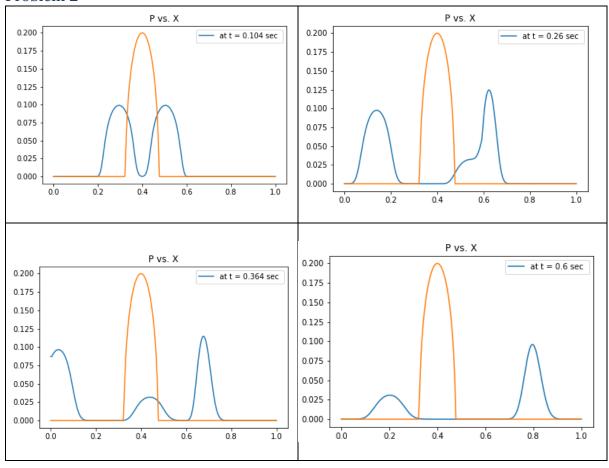
Flux Difference Splitting: Order 1

X axis is location and *Y* is pressure

Problem 1

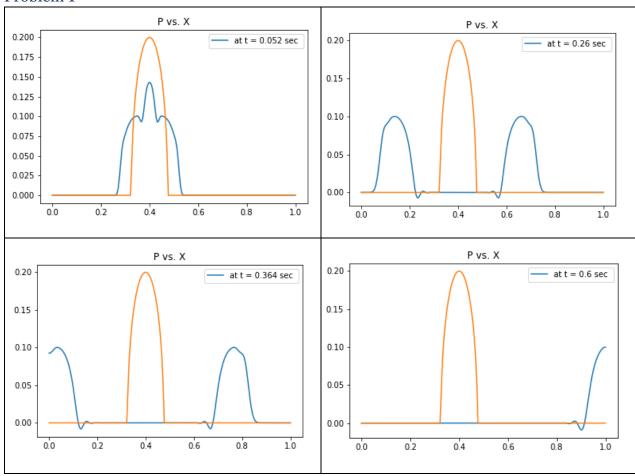


Problem 2

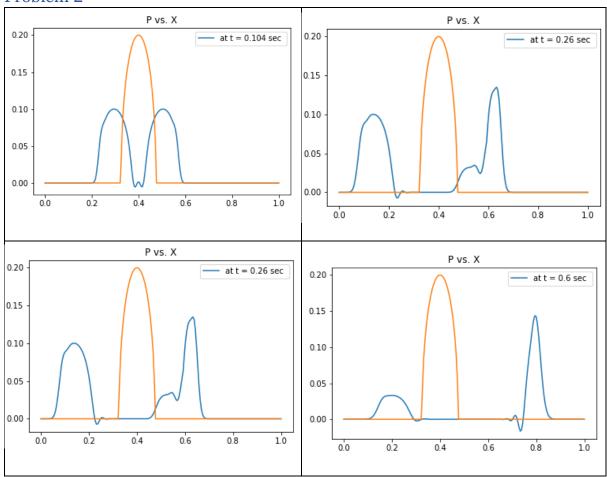


Flux Difference Splitting: Order 2 *X* axis is location and *Y* is pressure

Problem 1



Problem 2



Observation

The second order scheme has numerical oscillation error and that seems to grow with time.