### MMS Mean Flow Profile

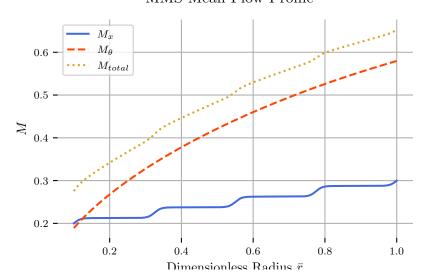
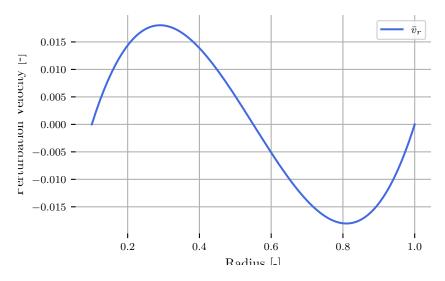
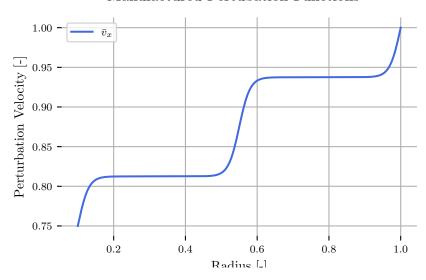


Figure 1: Mach distribution for method of manufactured solution case

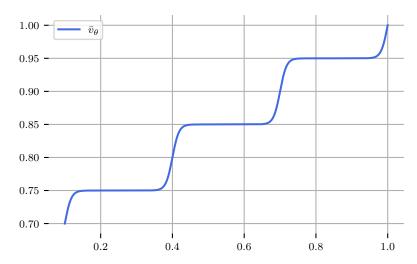
#### Manufactured Pertubation Functions

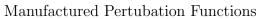


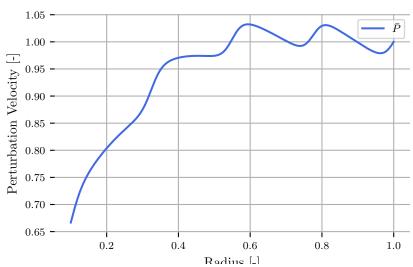
# Manufactured Pertubation Functions



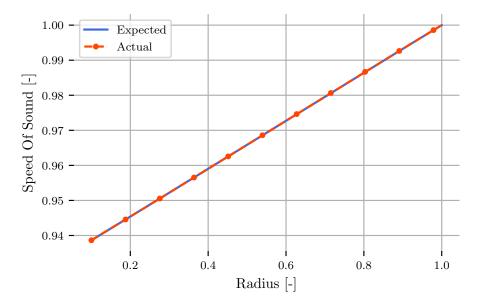
#### Manufactured Pertubation Functions

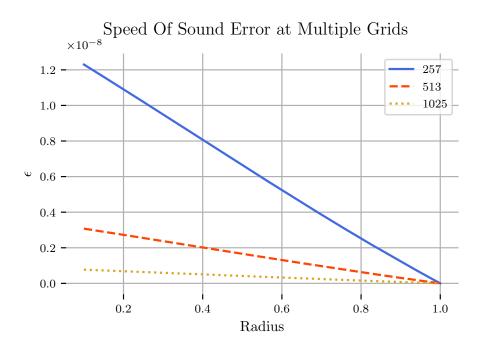




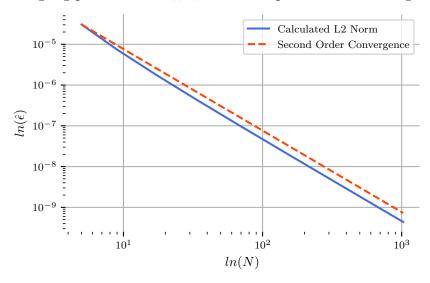


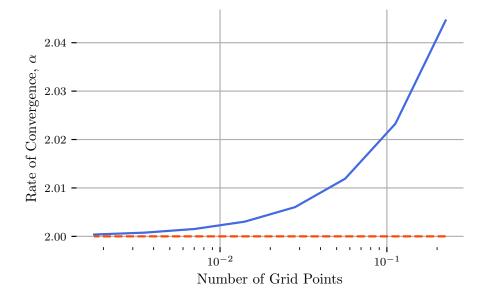
# Speed Of Sound Computation at 7 grid points

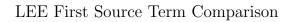


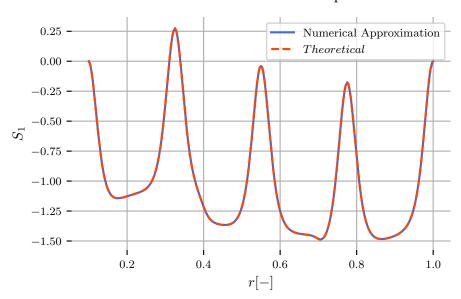


Log-log plot of the  $L2_{norm}$  from the Speed of Sound Integration

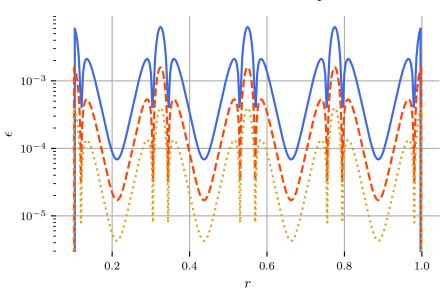




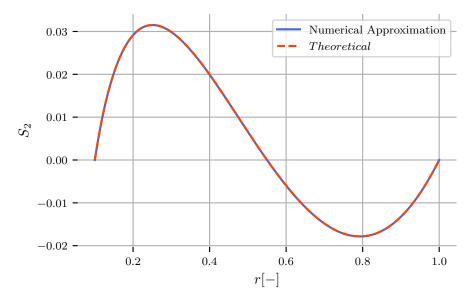




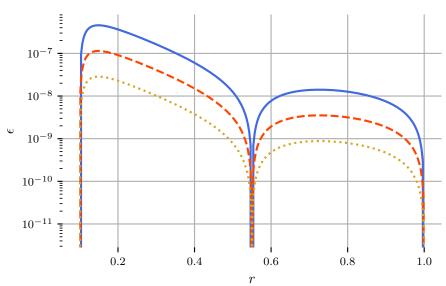




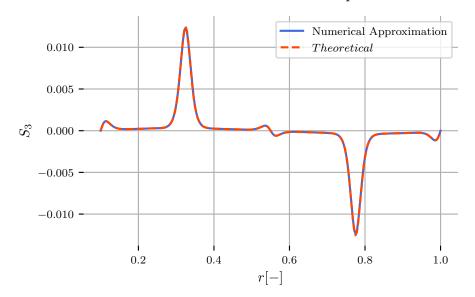
# LEE Second Source Term Comparison



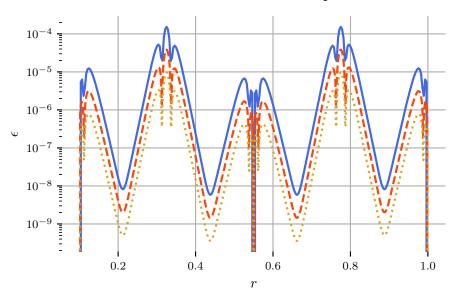
# Source Term 2 Error at Multiple Grids



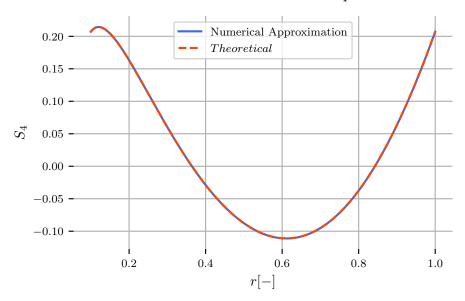
# LEE Third Source Term Comparison



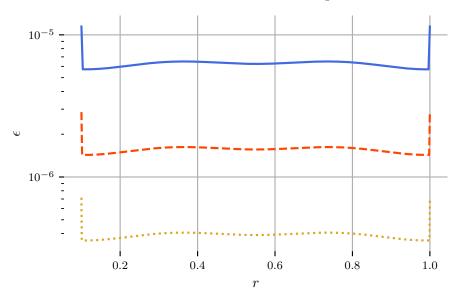
# Source Term 3 Error at Multiple Grids $\,$



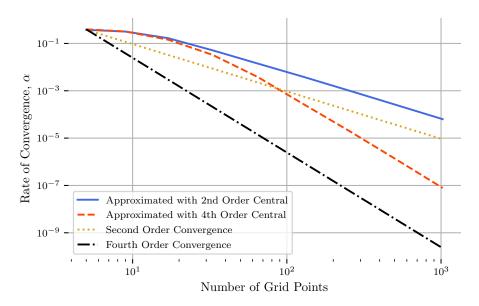
## LEE Fourth Source Term Comparison



# Source Term 4 Error at Multiple Grids $\,$



### L2 of LEE Matrix



### Rate of Convergence of LEE Matrix

