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# CFD

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## MINI PROJECT

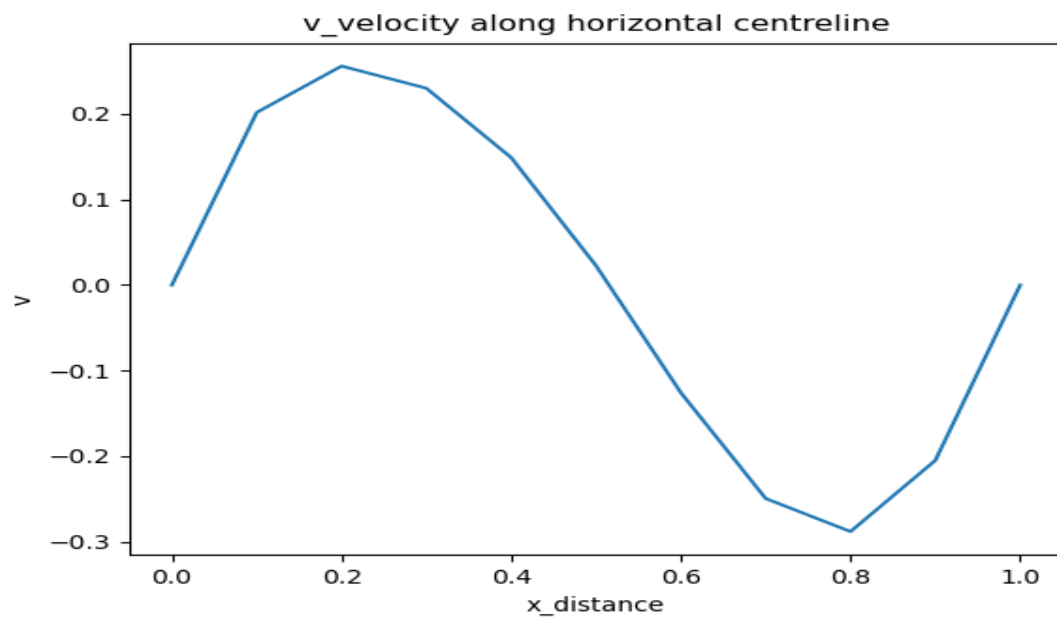
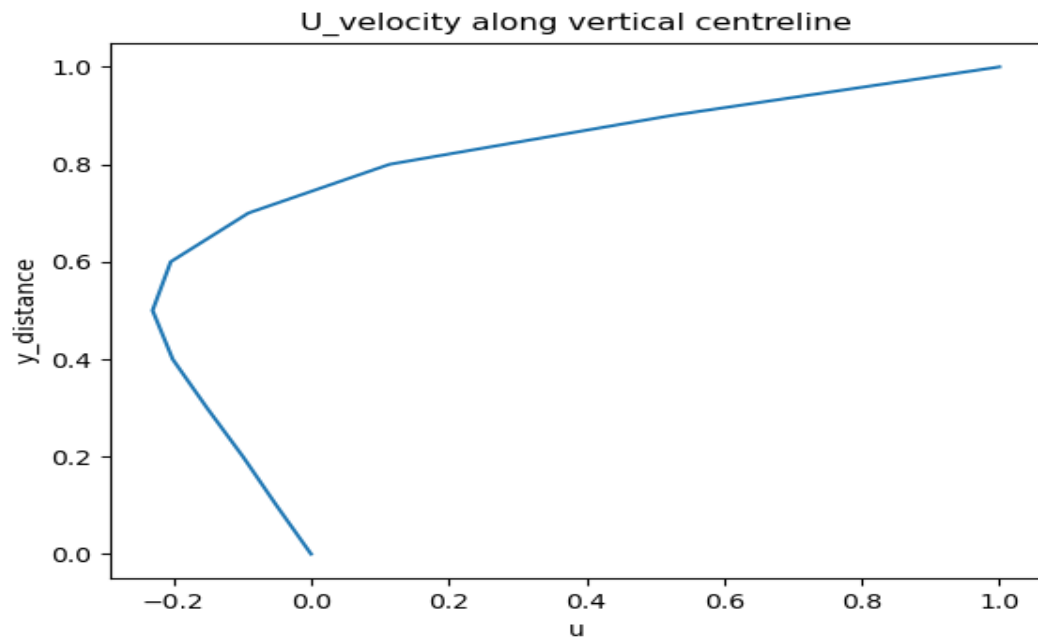


LID DRIVEN SQUARE CAVITY
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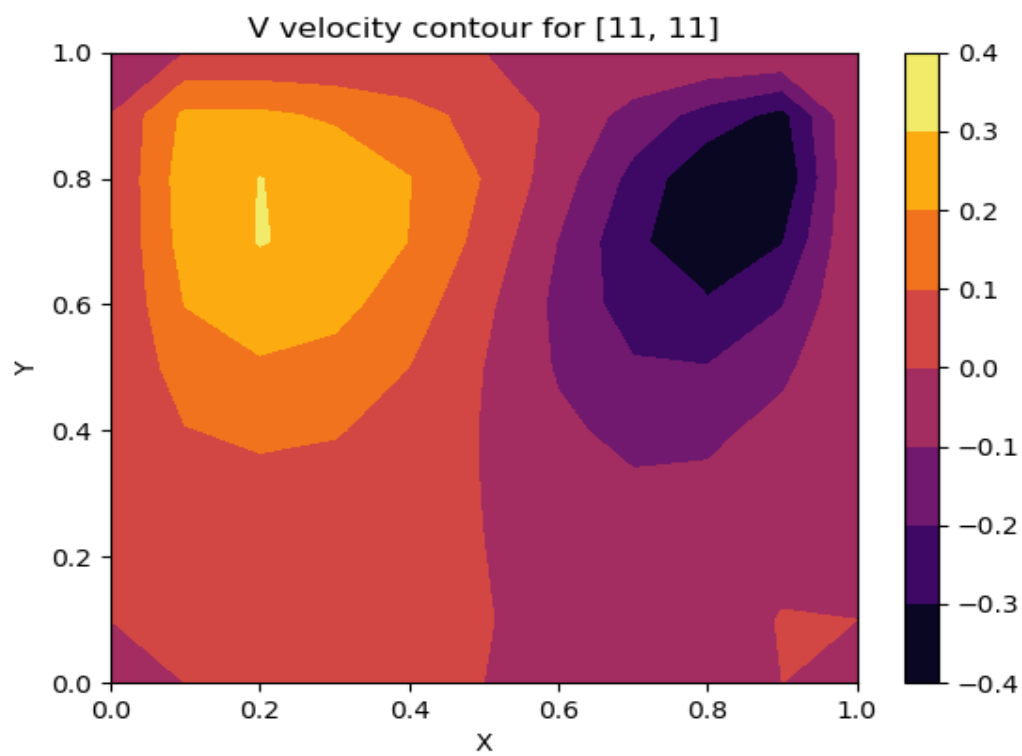
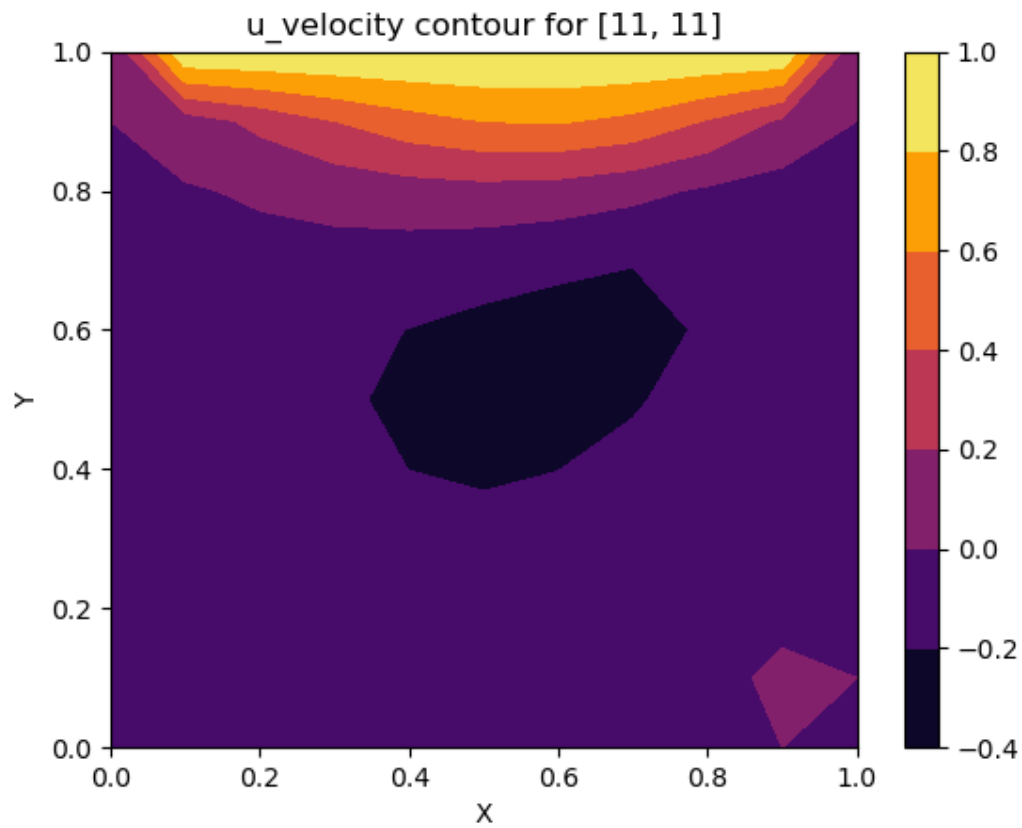
Name: Kondapally saikiran reddy  
Roll number: 2021PTH1060

# For Gridsize=11X11

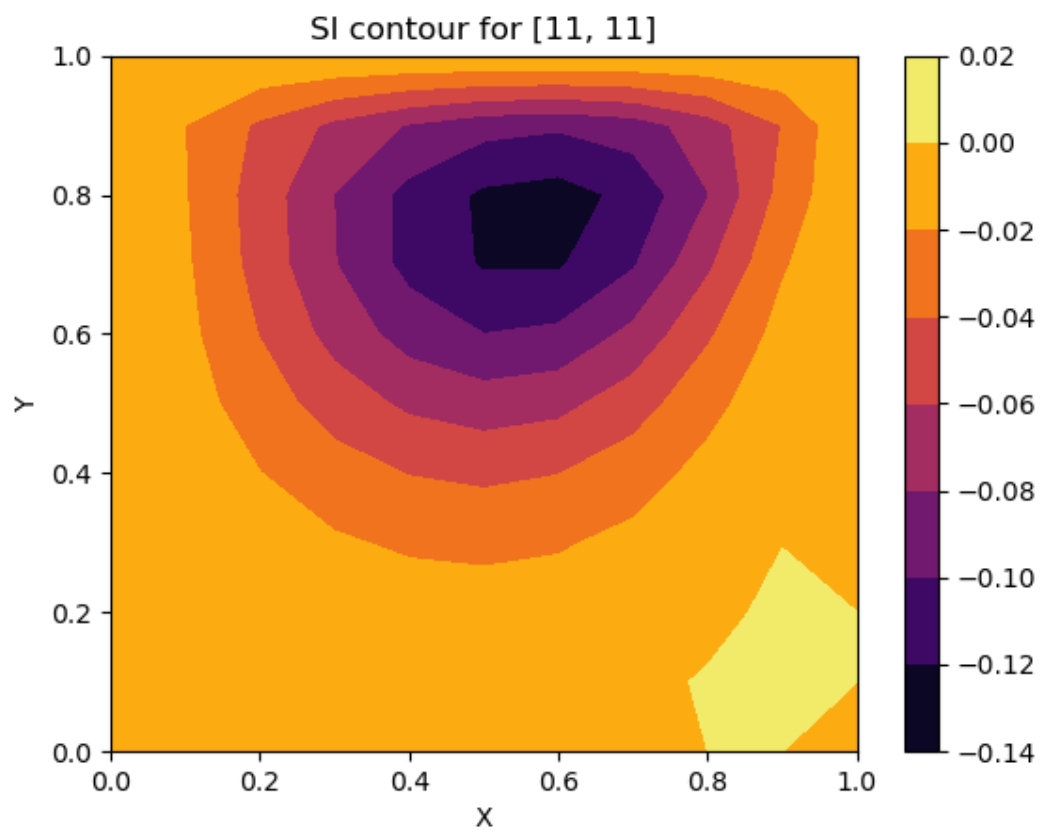
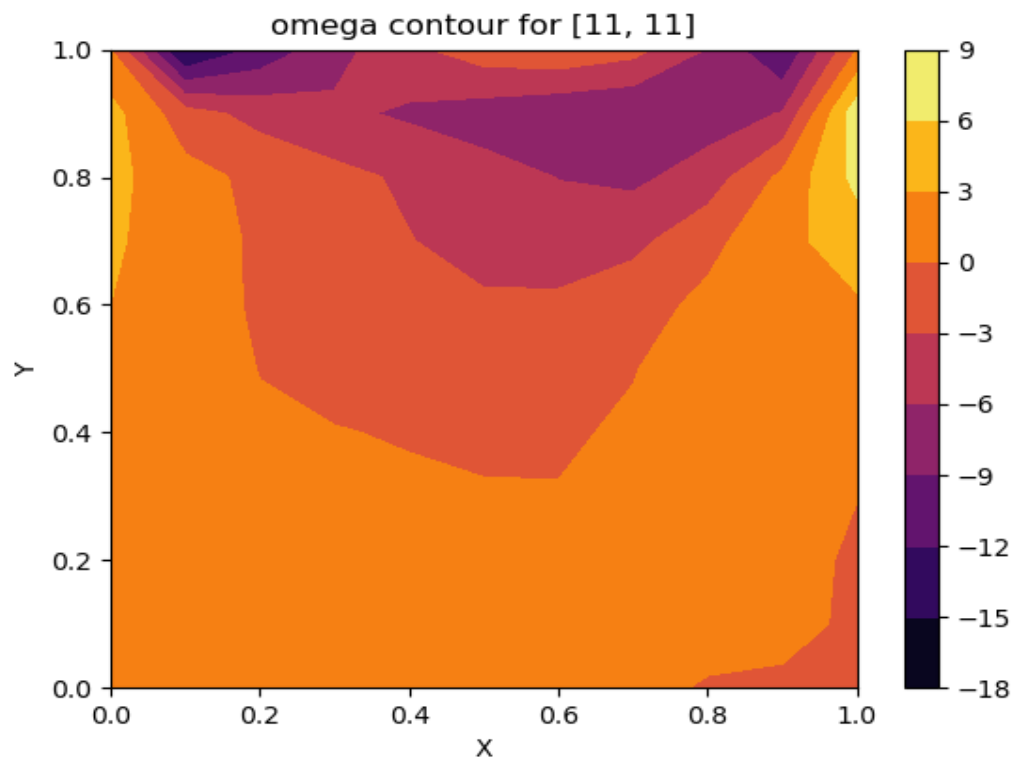
## U and V velocities along centerline



## U and V contour

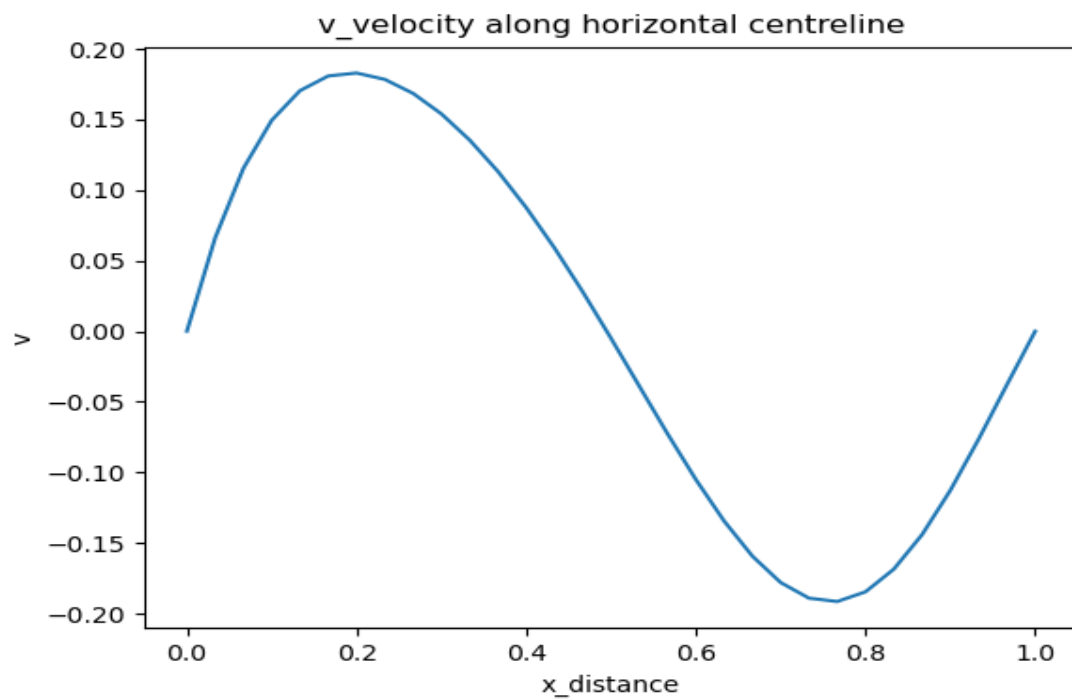
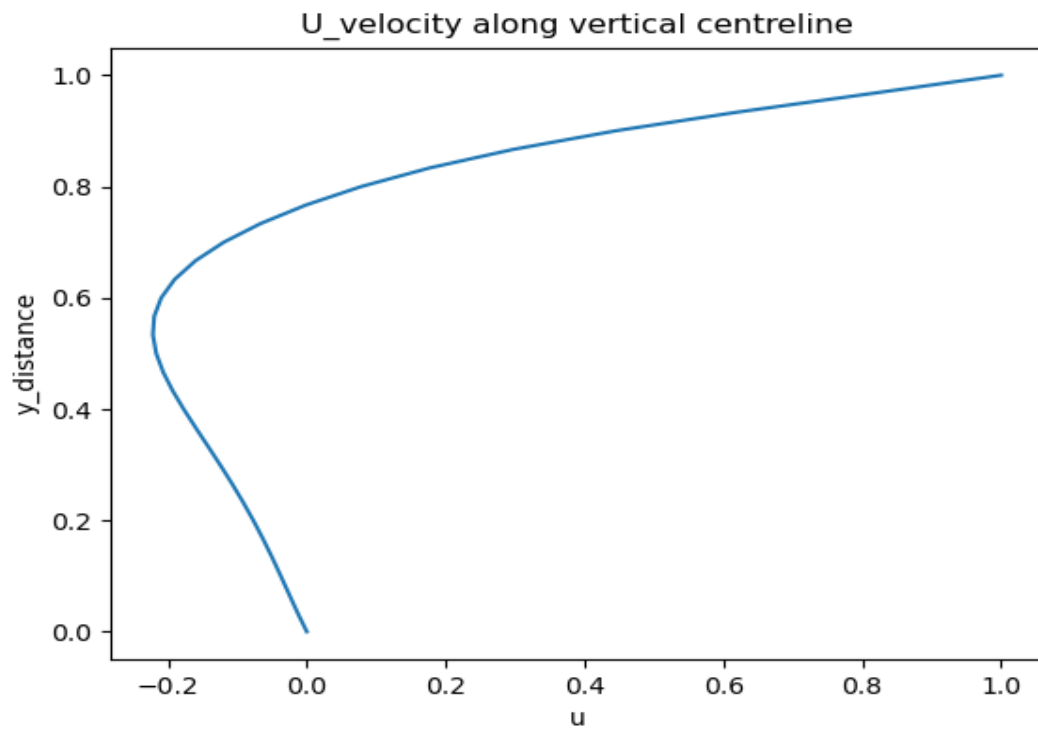


## Omega and stream function contour

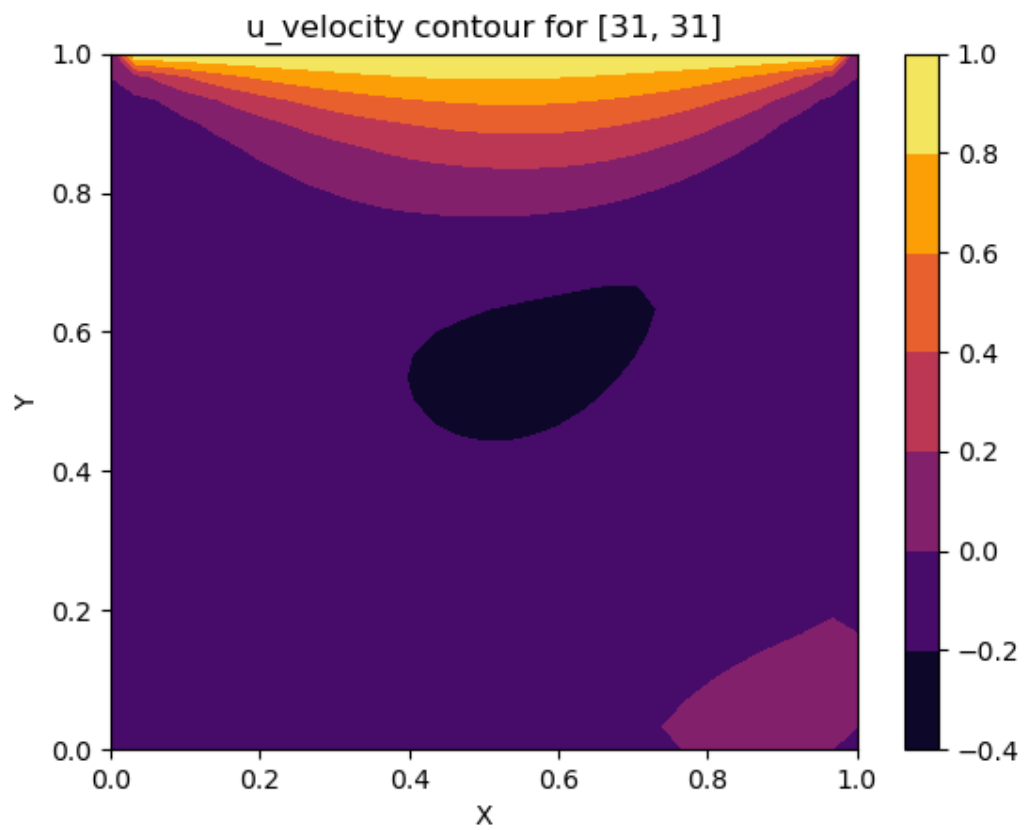
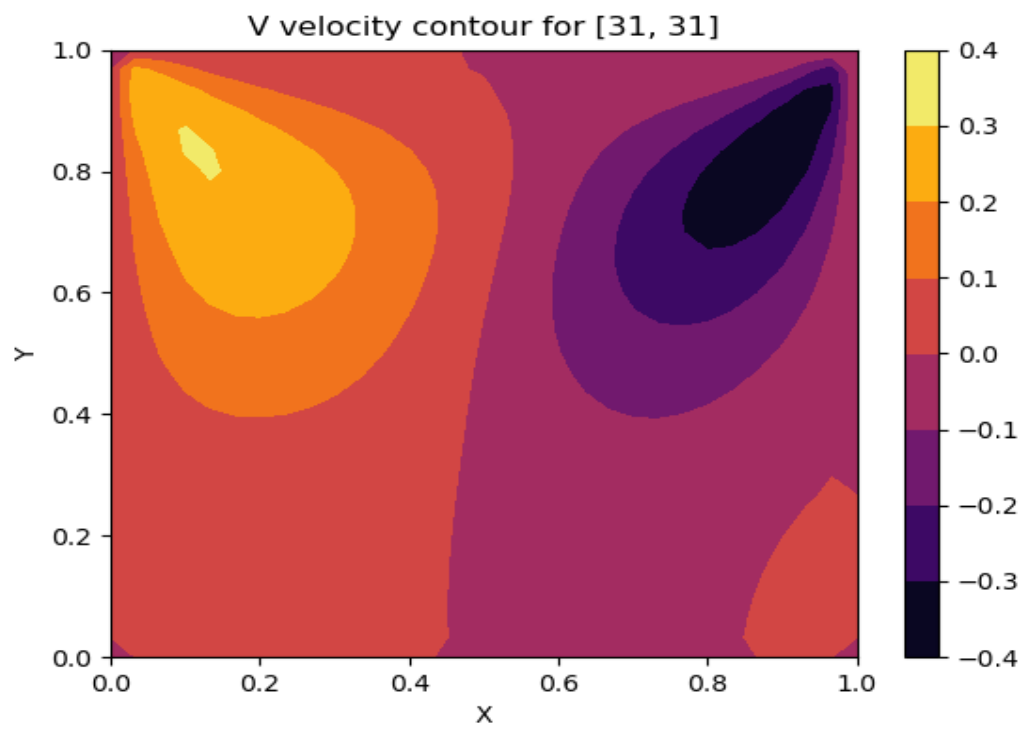


For Gridsize=31X31

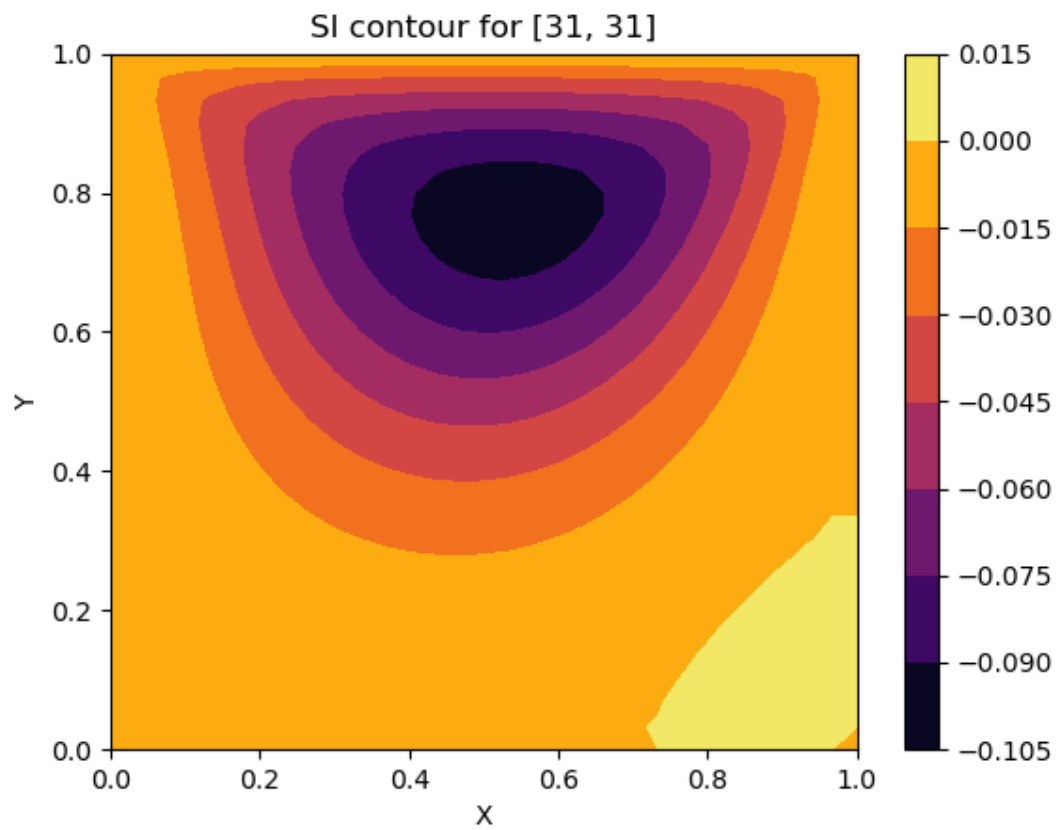
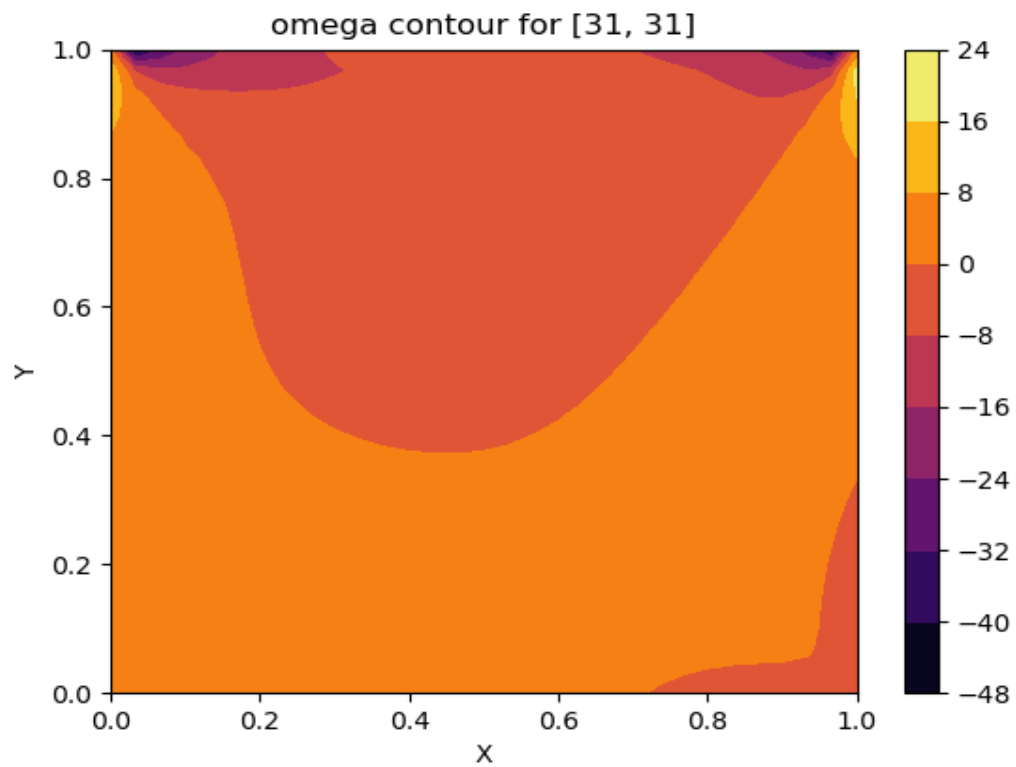
U and V velocities along centreline



## V and U contour

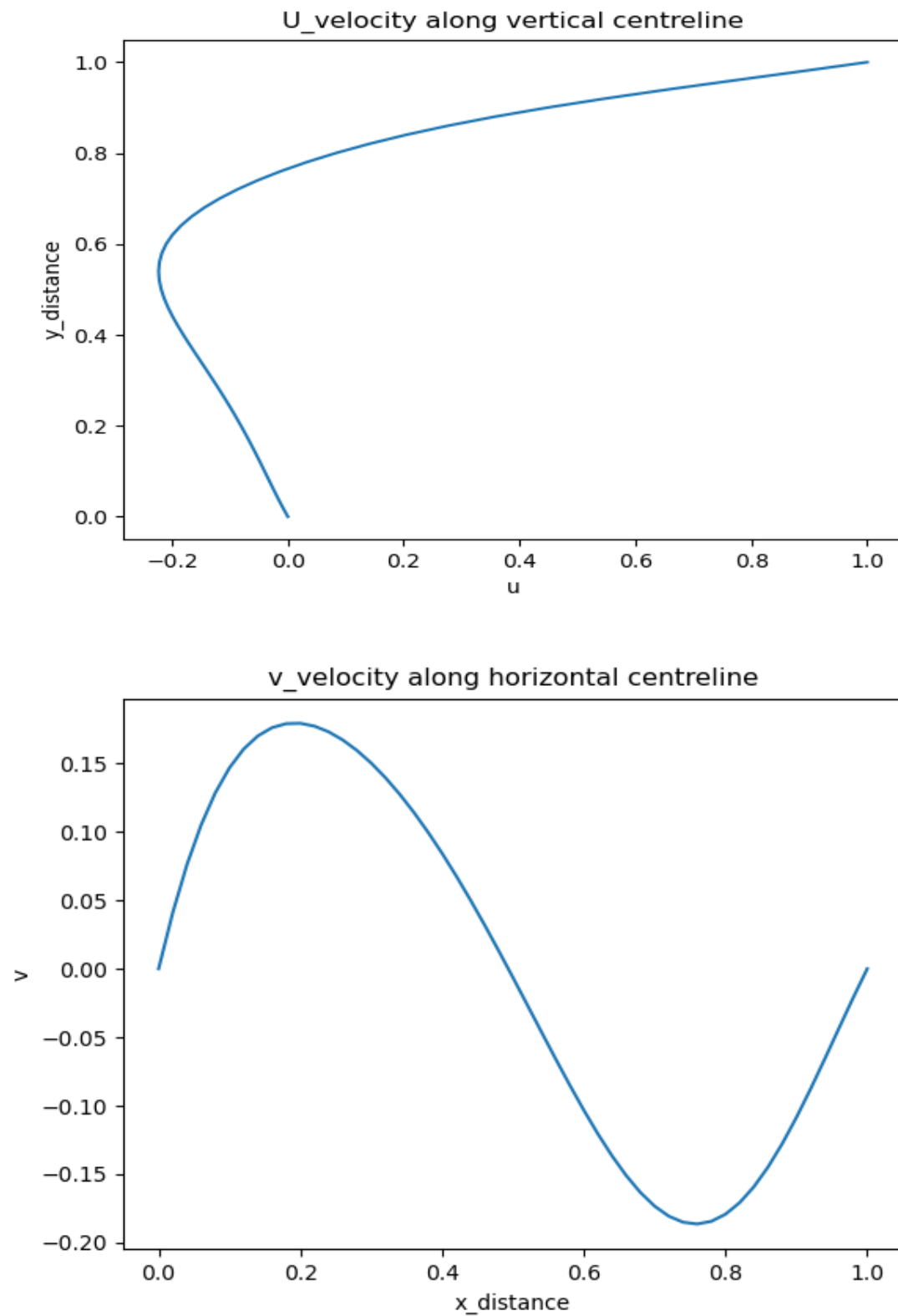


## Omega and stream function contour



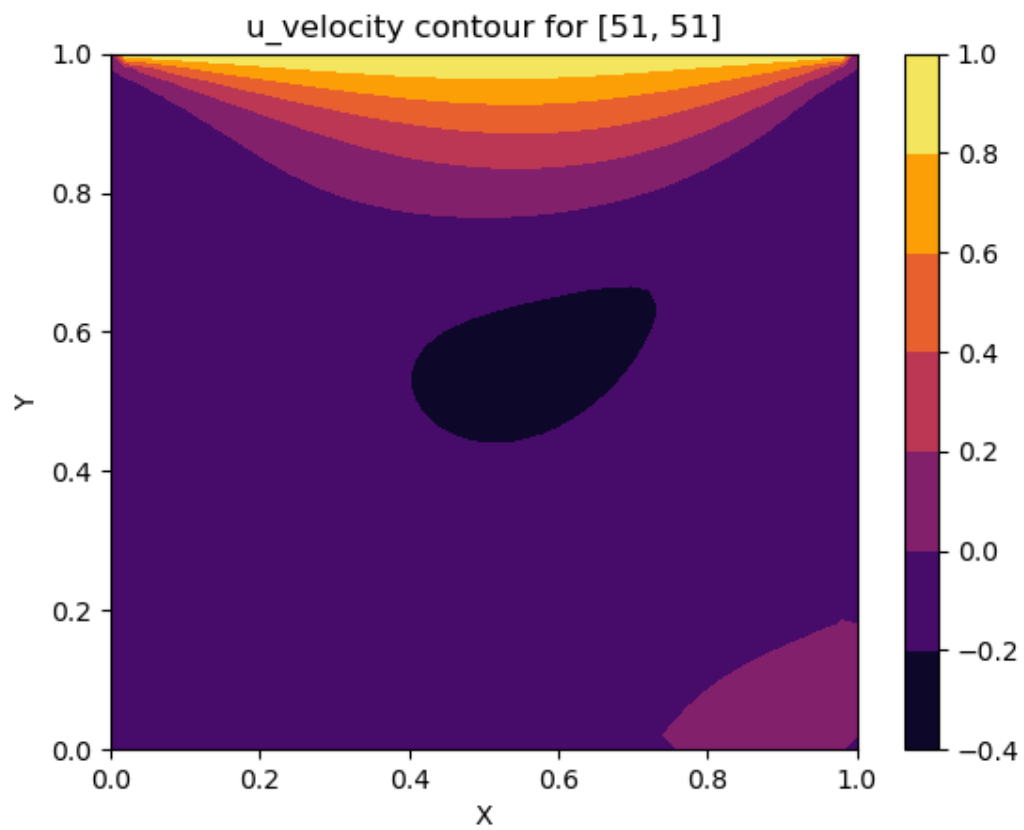
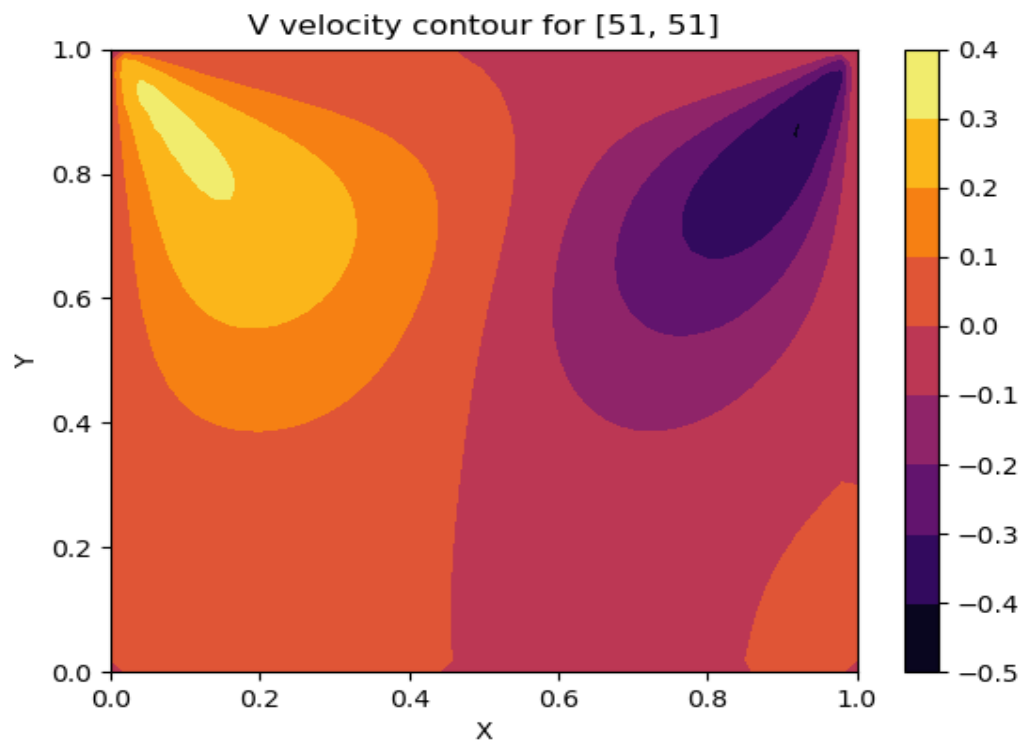
## C) For Gridsize=51X51

U and V velocities along centreline

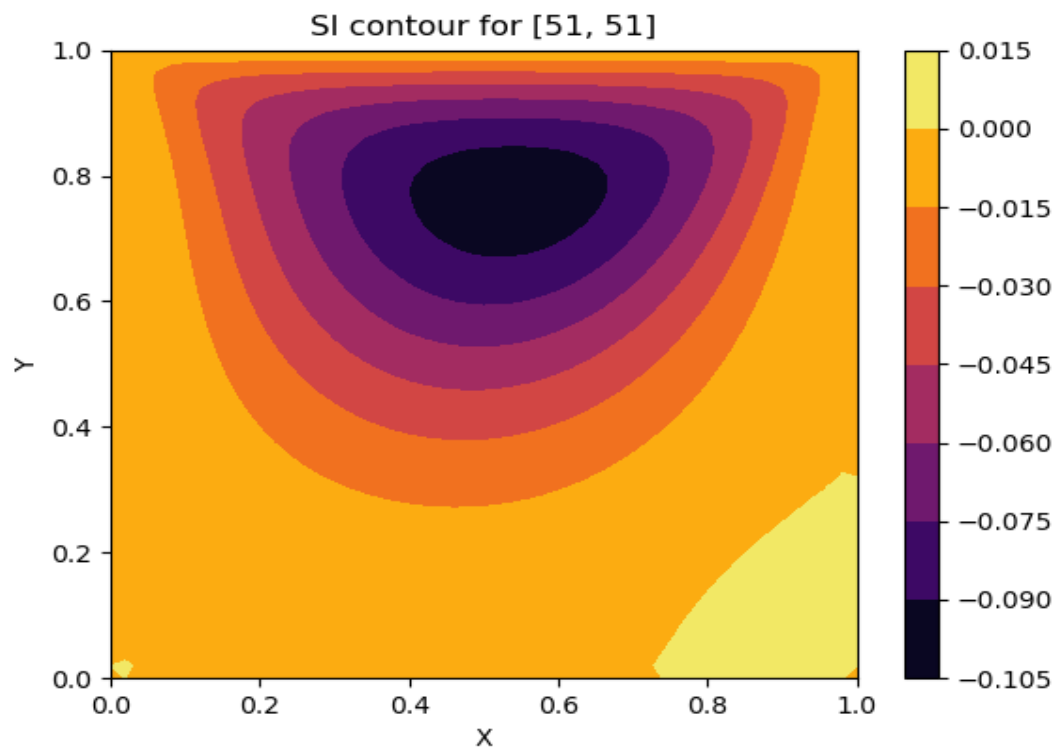
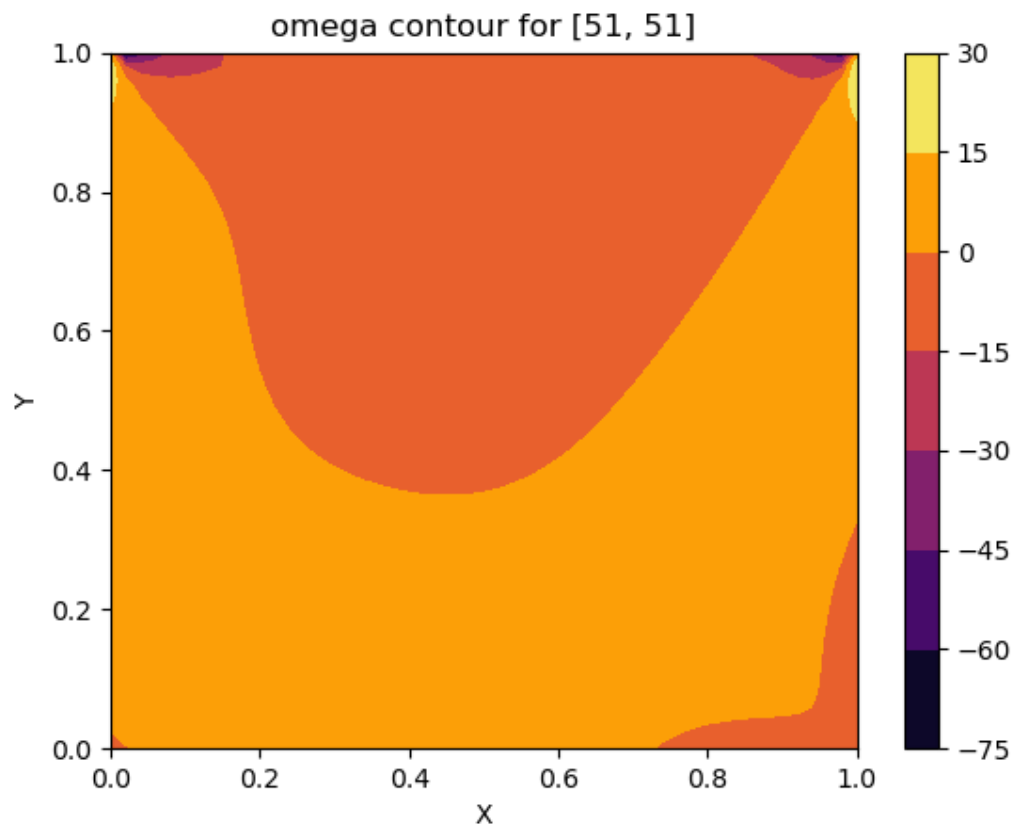




## V and U contour

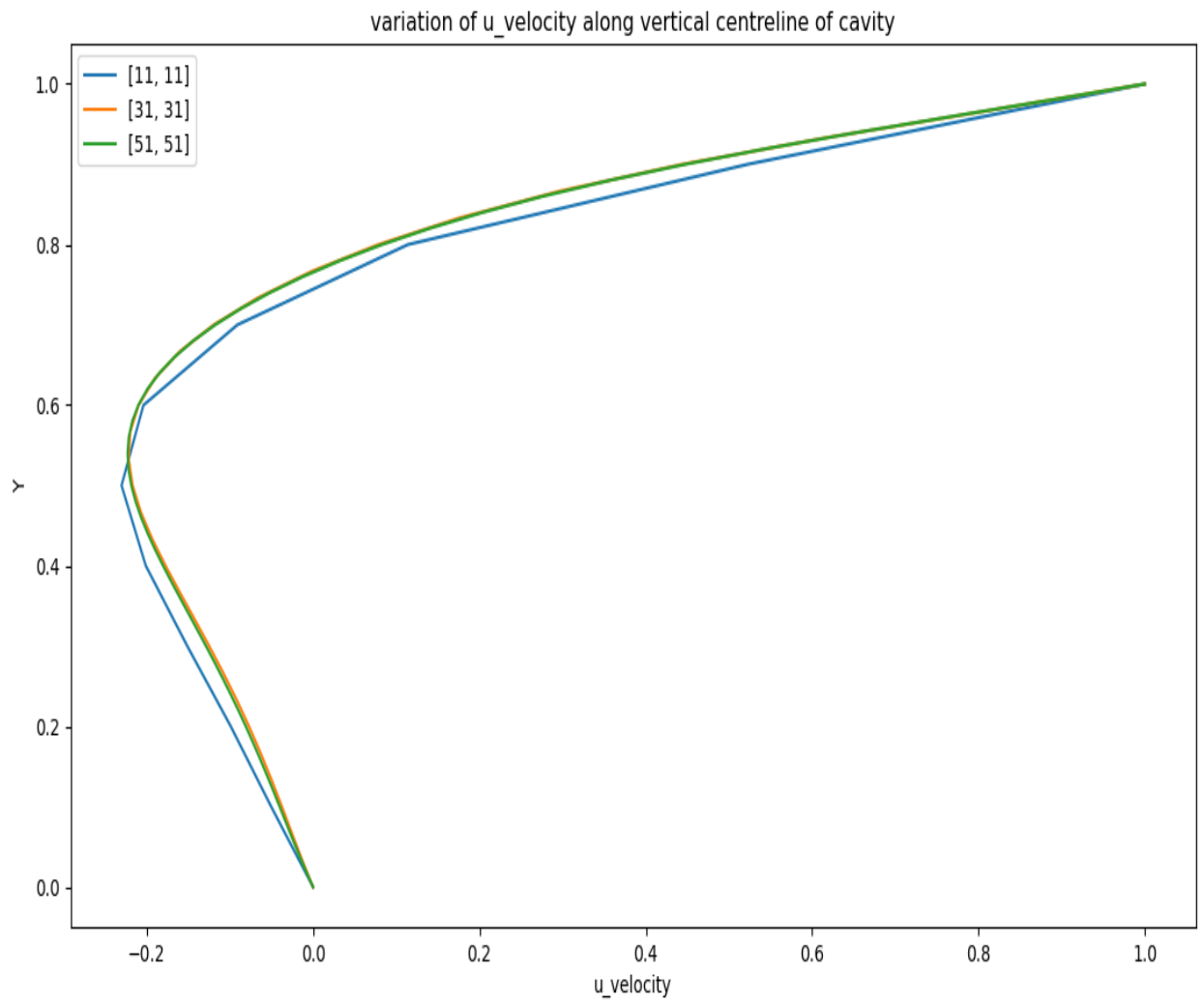


## Omega and stream function contour



## a) GRID Independence Test

U\_velocity along vertical centerline



b)  $v_{\text{velocity}}$  along horizontal centerline

