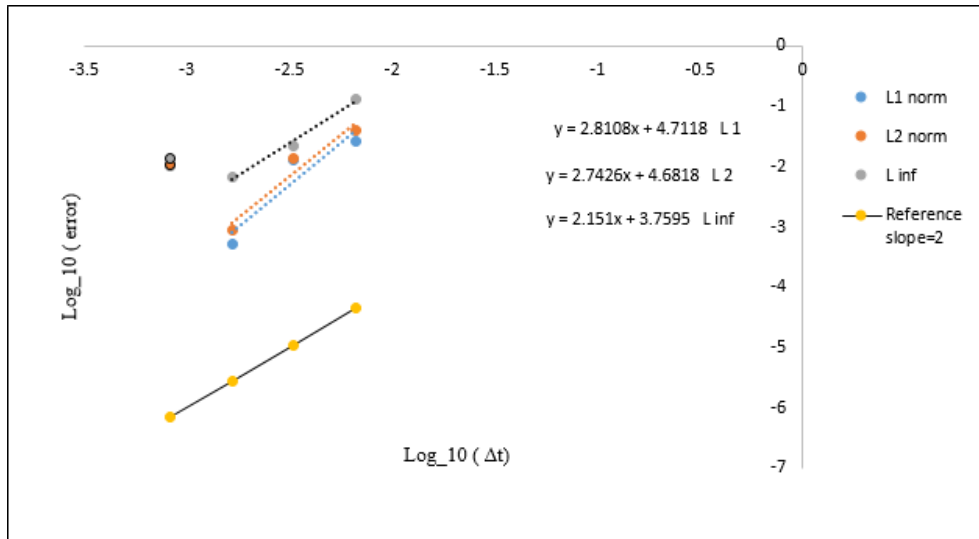


(a) Log-Log plot of  $U$  velocity Convergence rate



(b) Log-Log plot of Pressure Convergence rate

Figure 6. 5: Log-Log plot of error for method  $Pm\ 1(b)$  on domain:  $[-1,1]^2$  at time 1 with  $CFL = 0.1$ . Subplot (a) shows the convergence for  $U$  velocity whereas (b) shows the convergence for pressure. The data points correspond to grid size 15, 30, 60 and 120 respectively. There are 3 outliers in subplot (b) (two of which almost overlap each other) corresponding to a grid size of 120. They are circled with black solid lines. For consistency, convergence rates were calculated excluding the outliers