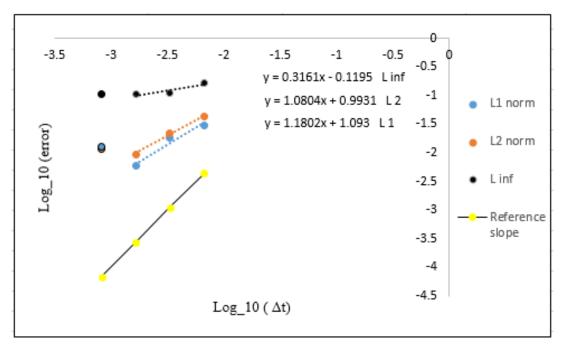


(a) Log-Log plot of Pressure Convergence rate when second order approximation to ϕ^{n+1} was used.



(b) Log-Log plot of Pressure Convergence rate when no approximation to ϕ^{n+1} was used.

Figure 6. 17: Log-Log plots of Pressure error convergence for $Pm\ 2$ on domain: $[-1,1]^2$ at time 1 with CFL=0.1. Subplot (a) shows the convergence where second order approximation to ϕ^{n+1} ($2\phi^n-\phi^{(n-1)}\sim\phi^{n+1}$) was used whereas (b) shows the convergence where no approximation to ϕ^{n+1} was used.