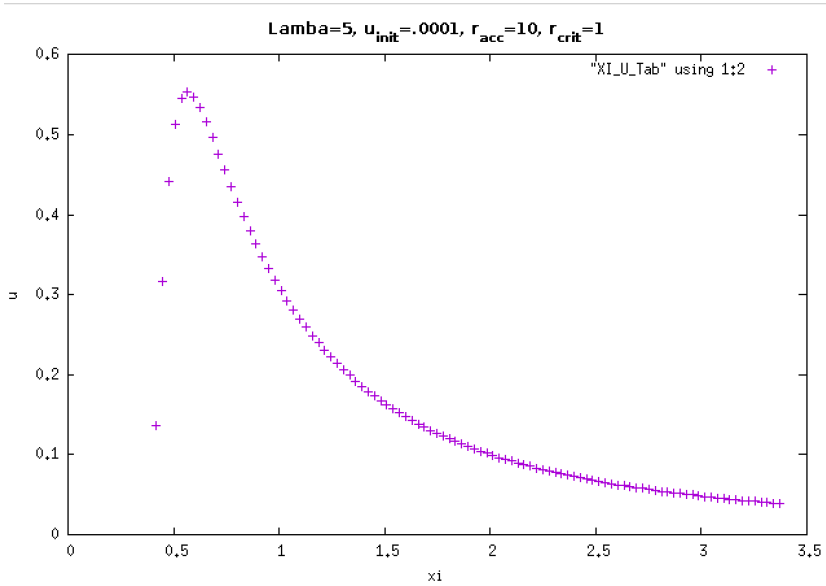
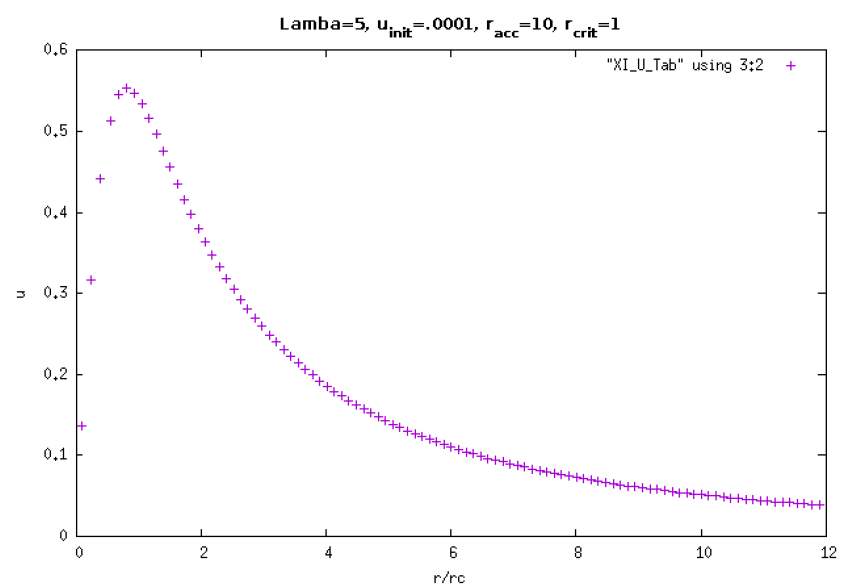
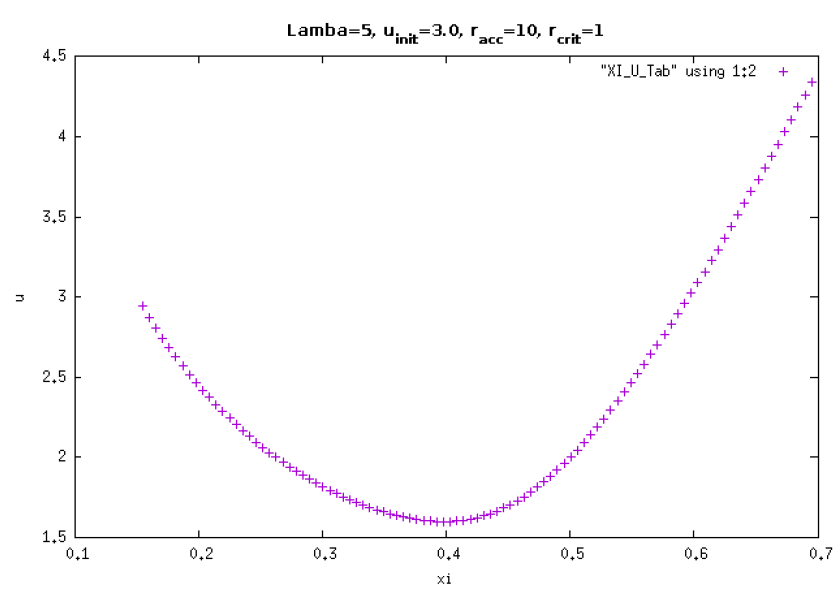
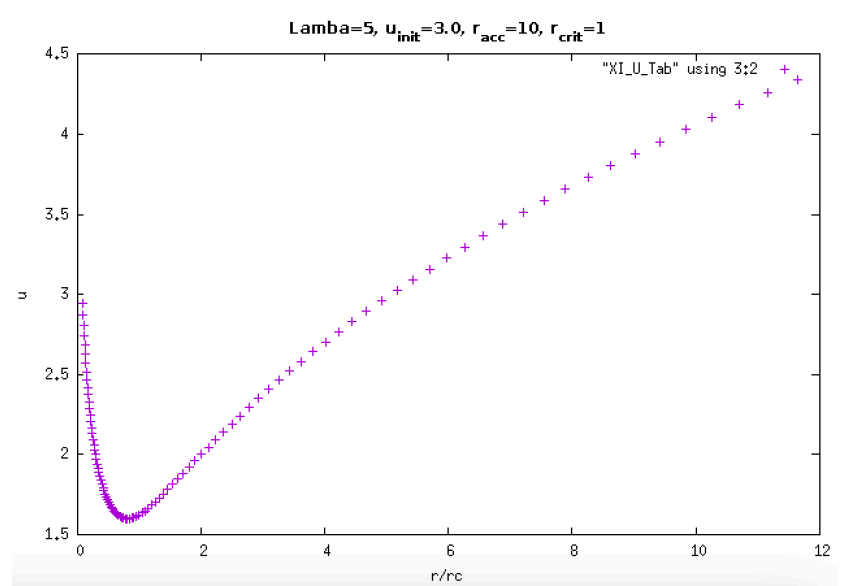
A.



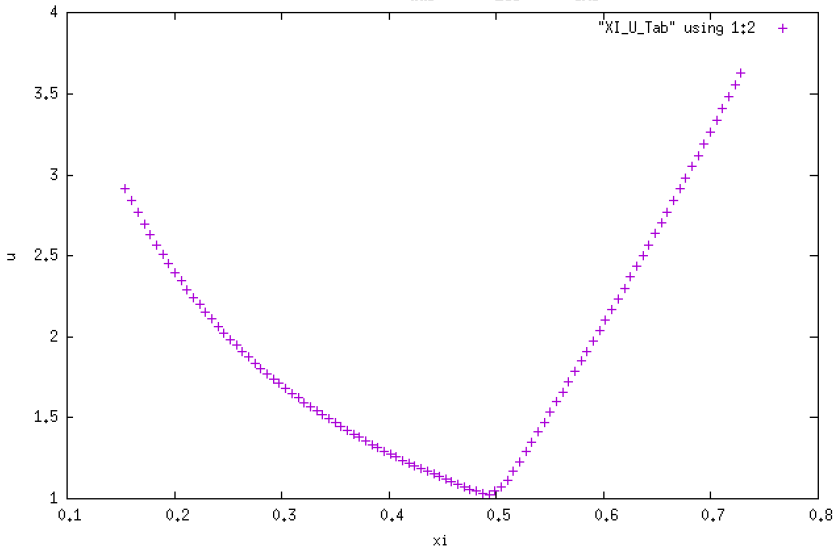


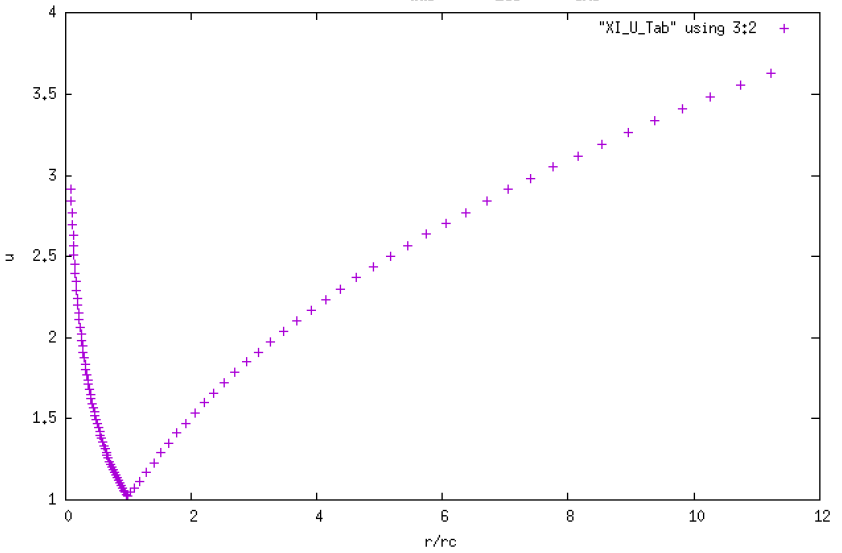
B.



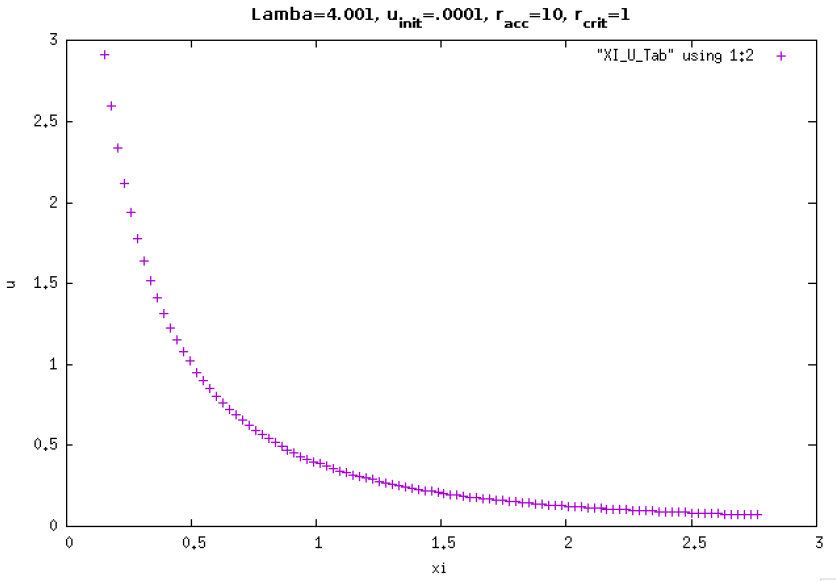


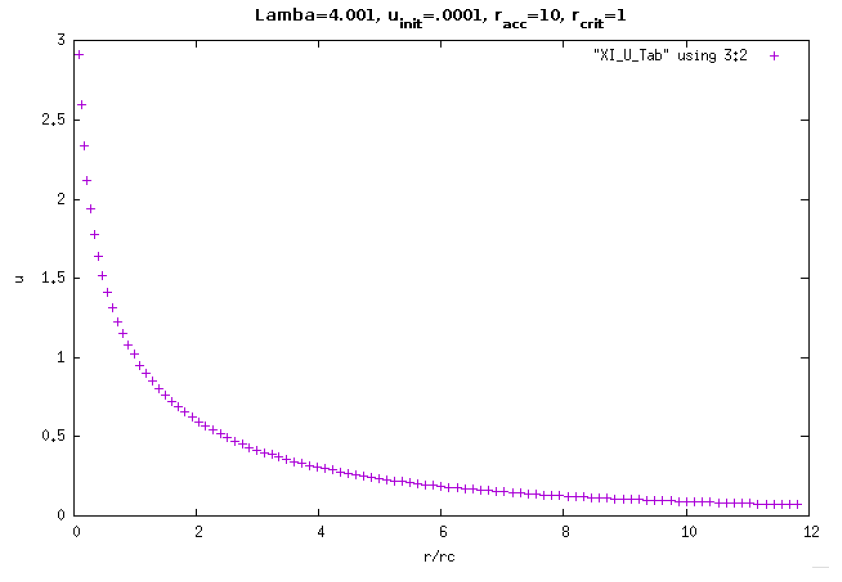
C.





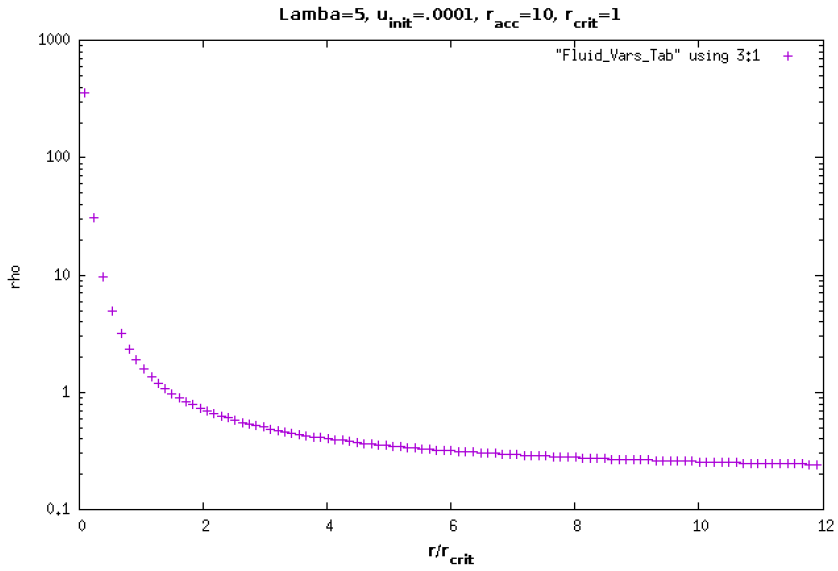
D.

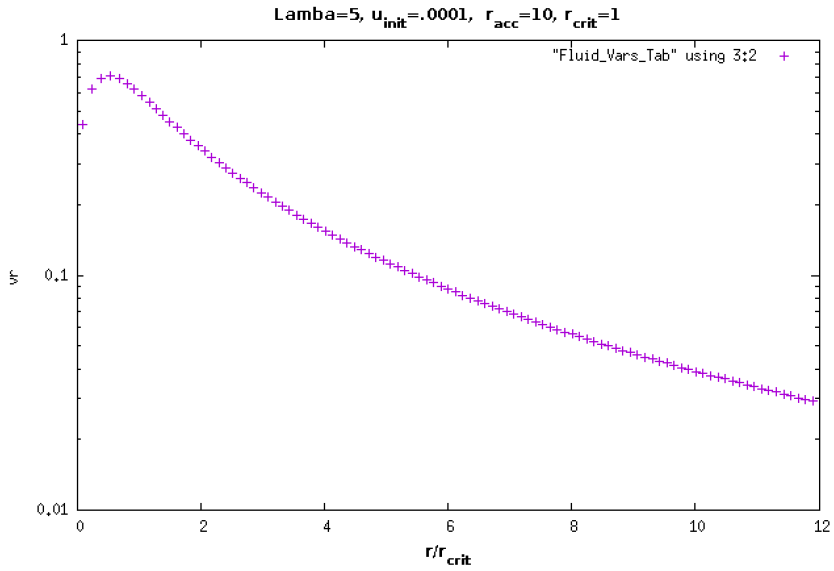




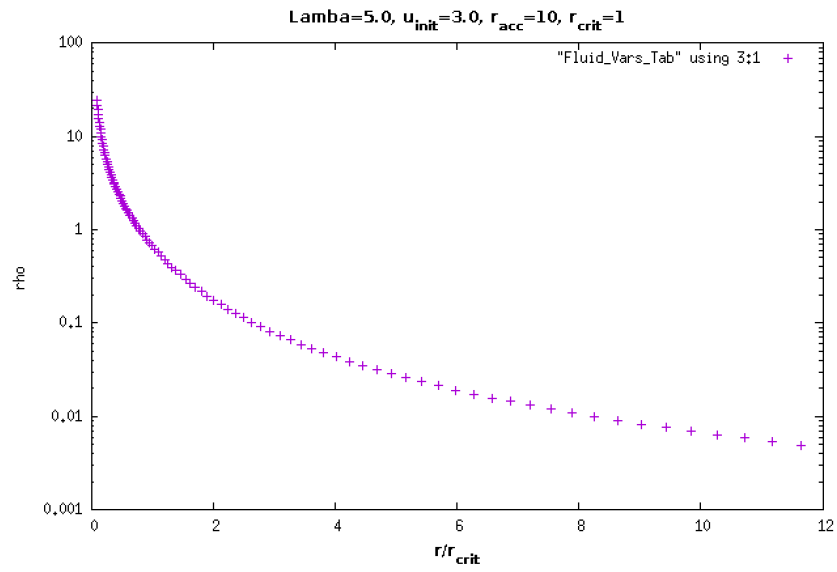
Testing "Generalized" Bondi Solver. For all plots, left hand column shows u(ξ), and right is u(r). ***A***. *Subcritical, subsonic solution*. ***B***. *Subcritical, supersonic solution*. ***C***. *Critical, supersonic solution*. For this case the starting point is supersonic, so as the solution approaches the critical point it simply follows a subcritical, supersonic trajectory. ***D.*** *Critical, subsonic solution*. For this case, the starting point of the integrator is subsonic. The solution switches branches at ξ=0.5, or r/rc=1.

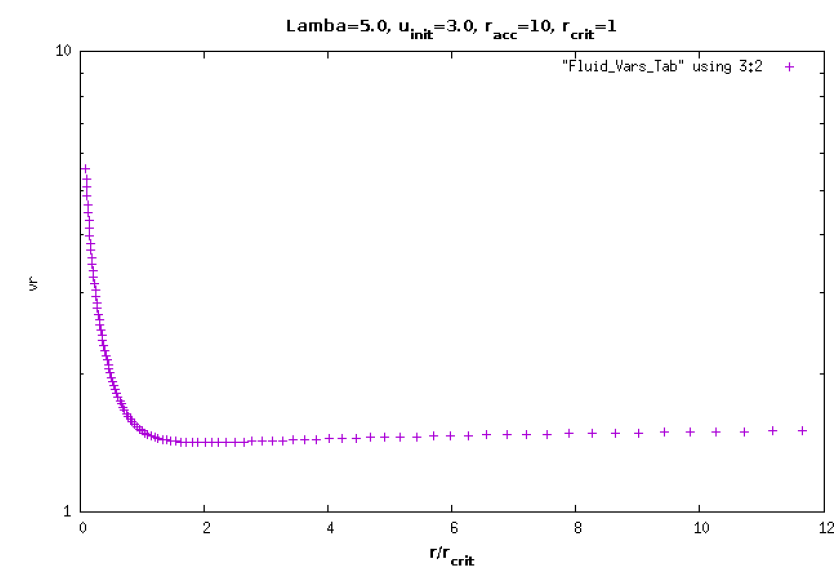
A.



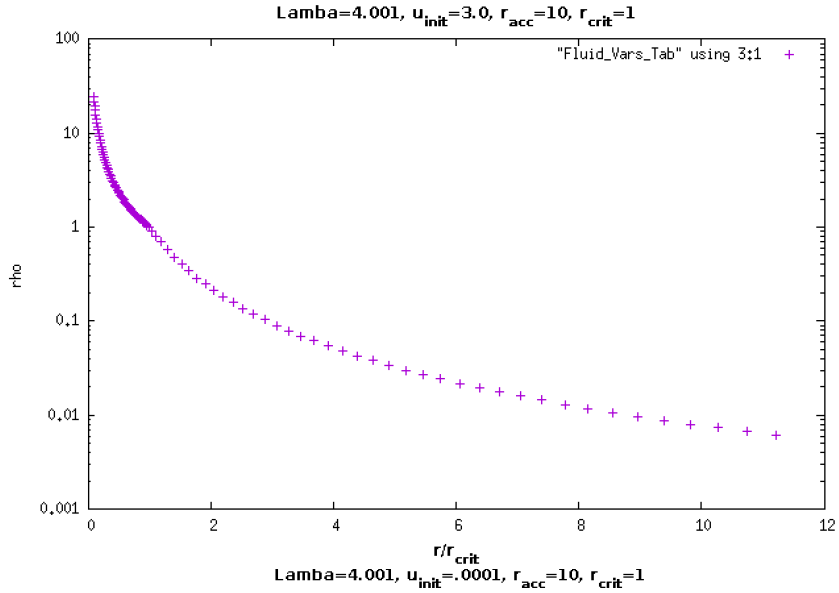


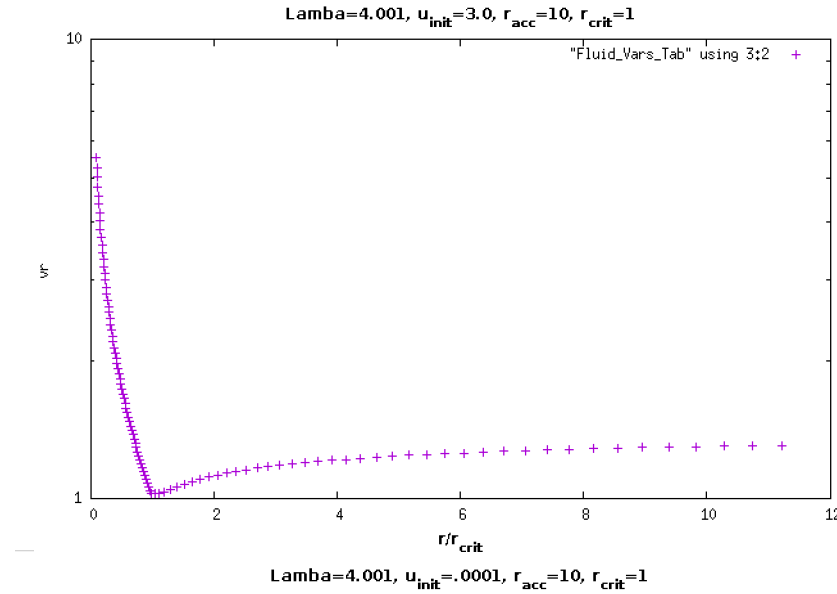
B.



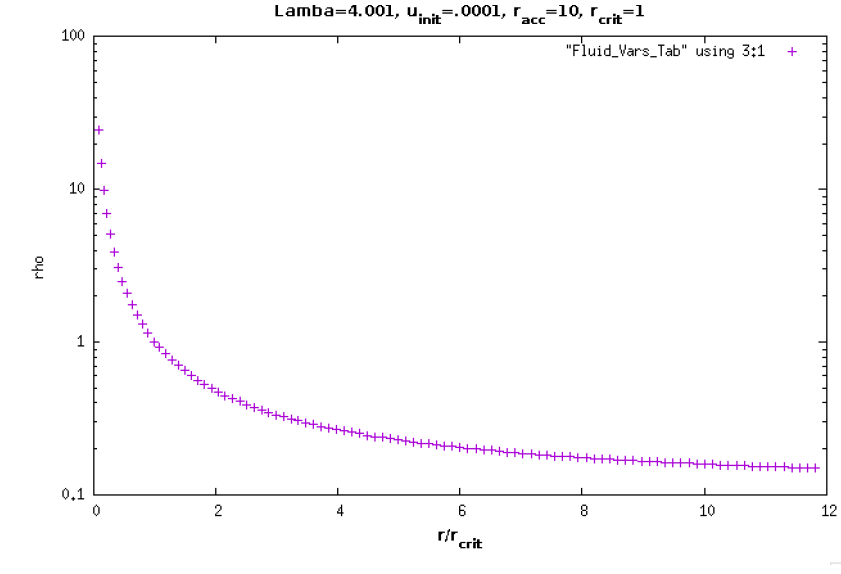


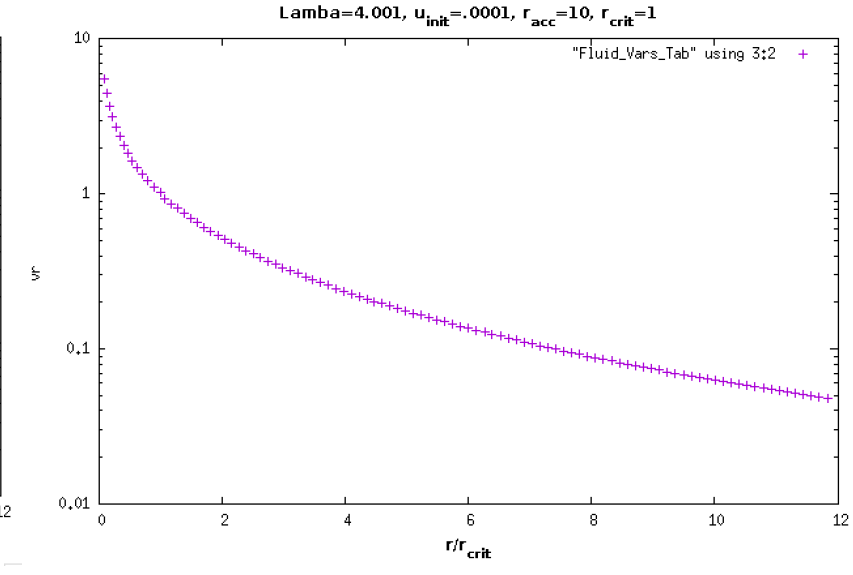
C.





D.





Testing "Generalized" Bondi Solver — Fluid Quantities. For all plots, left hand column shows rho(r/rc), and right is vr(r/rc). ***A***. *Subcritical, subsonic solution*. ***B***. *Subcritical, supersonic solution*. ***C***. *Critical, supersonic solution*. ***D***. *Critical, subsonic solution*.