$$P = \frac{2}{\alpha} \left[ P u \right]_{t} + \left[ P u \right]_{t} +$$

BOBOALLES S=P+ux-Pu P+-P (P\*U\*-Pu)(P\*U\*-Pu)=P\*U\*-Pu+aP\*-aP P\* 4 + Ph - 2 Pul + ux = P\* ux - P\* u + alx - all x -P/4 ux + P/ = aP/x + ap2 AM - 2 Pul x ux + Pl x u = alx + allx + Pl x ux + allx Phu -2 Pulitux - alx + allx - al + llxux = 0 U-244 - aP\* + 2a - aP + U\* = 0 1=44+4aPx-8a+4aP-4Ux 24-141+4a/+-8a+4a/-44/ UP U+ JUX+ aPx -2a+aP - 4x U(P) = Ux + 12 + 2P + 2P - 2a - 4x

give locus of 1-shocks v 2-shocks + sign U-a 2 (Right value) from right Um = Up + Pr + Pr Um= Up-a/ Pm + Pm - 2 if we put then equal, we can solve for Pm, Um

Newton method for nonlinear equation:

$$\frac{df}{dP} = \alpha \cdot l_2 \left( \frac{P_c}{P_m} + \frac{P_m}{P_c} - 2 \right)^{-l_2} \left[ -\frac{P_c}{P_m^2} + \frac{l}{P_p} \right] + \alpha \cdot l_2 \left( \frac{P_c}{P_m} + \frac{P_m}{P_c} - 2 \right)^{-l_2} \left[ -\frac{P_c}{P_c^2} + \frac{l}{P_c} \right]$$

Um and Pm is calculated by iterative method.