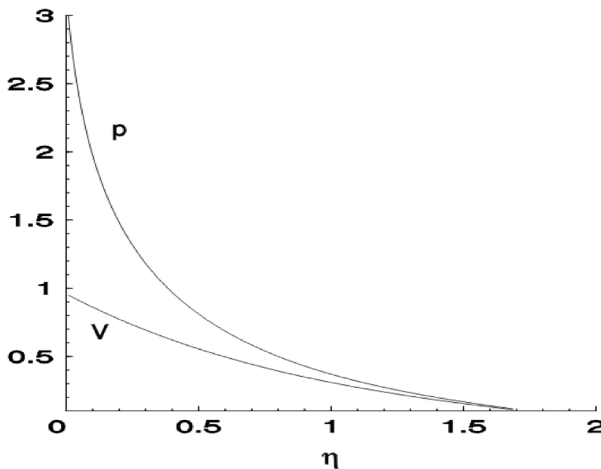


## THE EFFECT OF UNSTEADY FRICTION TO WATER HAMMER IN A HOMOGENEOUS FLUID



*Figure 1 – Dependence of pressure perturbations and shock pulse propagation velocity on the self-similar variable in the presence of Bruno friction ( $Br = 0.03$ )*

As one can see, the decay of the velocity value and its compact distribution in space. It is also important that in self-similar variables the pressure function has the same distribution as the velocity function. Therefore, the pressure perturbations in the inverse shock pulse also decay and are compact.