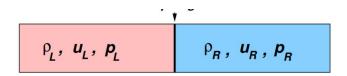
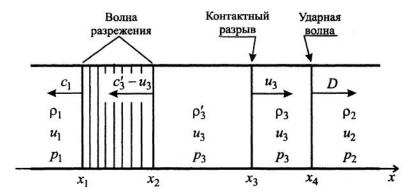
## **Assumptions**

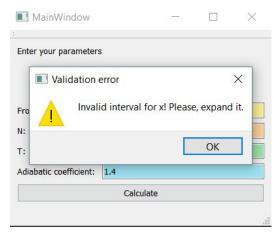
1) We consider that half of space is filled with gas A, another half is filled with gas B



2) x1, x2, x3, x4 correspond to



3) If your left\_border is more than  $x1(x_{\text{left}} > x1)$  or your right\_border is less than x4 (x\_right< x4), an exception will appear.



So you should decrease your left border or increase the right one.

- 4) If your interval is correct, you will receive nice and correct charts.
- 5) Pressure p3 (fig from point (2)) is found with the help of numerical Newton method for nonlinear equations.