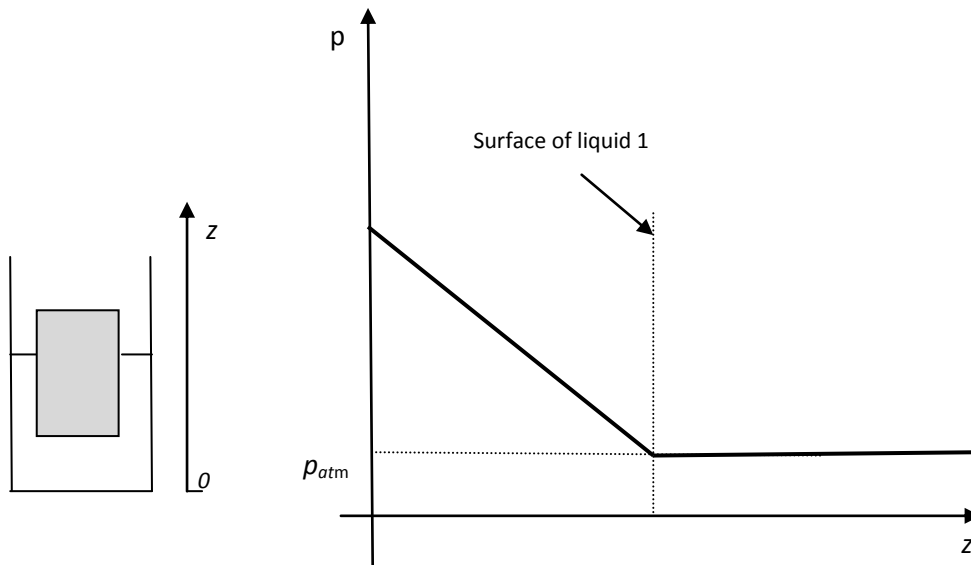


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## SHEET No.3<sup>1</sup>

### Activity 3

#### Solution using graphs



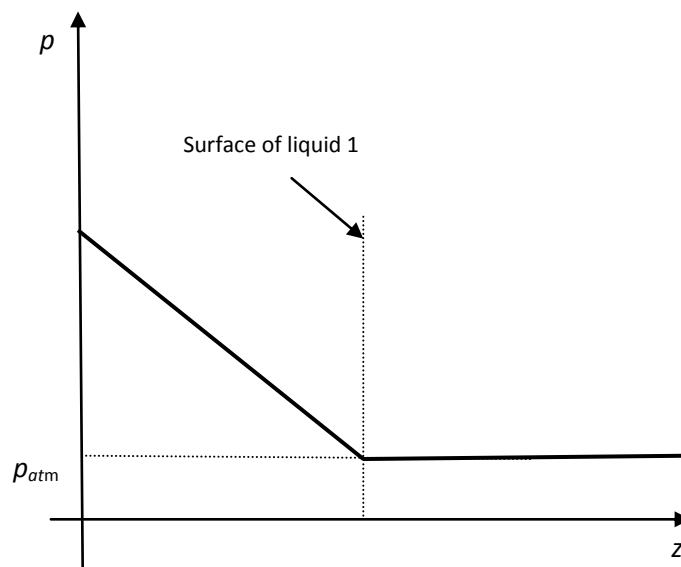
3a. Suggest possible questions for students related to the graph.

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<sup>1</sup> The MUSE group (G. Planinsic, E. Sassi, L. Viennot) takes responsibility for the content of this paper (July 2011). The intellectual property remains with the authors.

3b. Observe and discuss the presentation of the “paper set square” – a tool to explain floating of the cylinder in one liquid.

3c. Draw the new graph  $p(z)$  for the case of two fluids (oil on top of water) and use the “paper set square” to find the new equilibrium position of the cylinder.



3d. Discuss the advantages and problems of the graphical approach.