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flow at point 1.  $v_2$  is the velocity of flow at point 2.  $g$  is the acceleration due to gravity.  $h_A$  is the energy addition

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of the following quantities with combi-

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Step 1 of 2. Pressure is defined as the normal force applied to the unit surface area. Here,  $P$  is the pressure,

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$F$  is the normal force, and  $A$  is the unit surface area. The fluid pressure also depends on the density of the fluid and the depth at the point of interest.

Where the density of the fluid,  $\rho$  is is the acceleration due to gravity, and  $h$  depth at the point of interest.

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bottom air oil oil water water mercury  
mercury 3 or: 60000 Pa pair (8720  
N/m )(1.5 m) (9790)(1.0 m)  
(133100)(0.2 m) Solve for the pressure  
in the air space: pair 10500 Pa Ans.

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the problems and familiarity with the  
design of the spreadsheet are required  
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