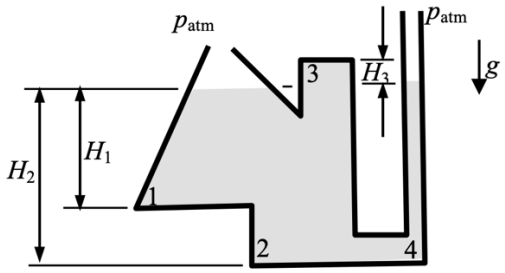
Determine the pressure at points 1, 2, 3, and 4.



SOLUTION:
Recall that the shape of the container doesn't matter when calculating hydrostatic pressure. It's only the depth of the fluid that matters.

$p_1 = p_{atm} + \rho g H_1,$ (1)
$p_2 = p_{atm} + \rho g H_2,$ (2)
$p_3 = p_{atm} - \rho g H_3,$ (3)
$p_4 = p_{atm} + \rho g H_2$ (Point 4 is at the same depth as point 2.) (4)