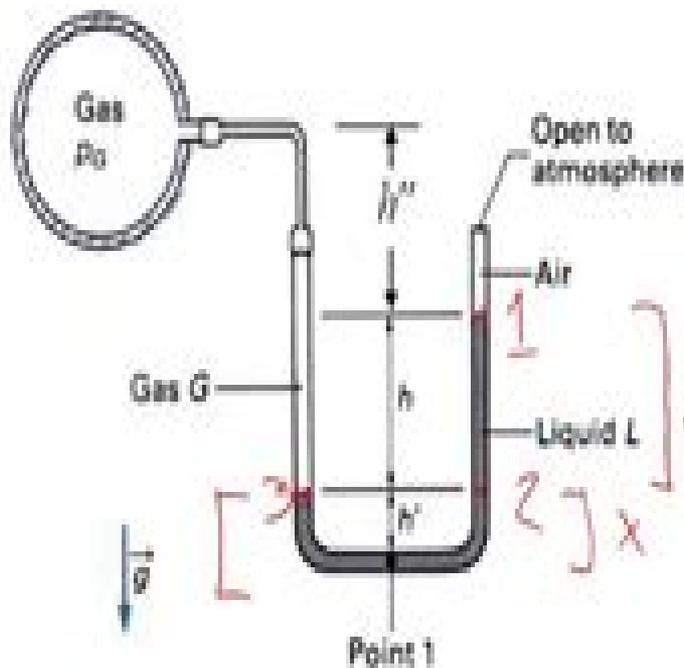


Example Problem #2.1

The liquid in the manometer is mercury ($\rho = 13593 \text{ kg/m}^3$) which is open to air at atmospheric pressure ($P_0 = 101.325 \text{ kPa}$). What is the pressure of the gas in the tank ($\rho = 1.13 \text{ kg/m}^3$), in gauge and absolute pressure, if $h = 10 \text{ cm}$, $h' = 3 \text{ cm}$, and $h'' = 8 \text{ cm}$?



$$P_1 = P_0 = 101.3 \text{ kPa}$$

$$P_2 > P_1 \quad P_2 = P_3$$

$$P_2 = P_1 + \rho g h$$

[Pa]

$$P_2 = (101.3 \text{ kPa}) + (13593 \frac{\text{kg}}{\text{m}^3}) (9.8 \frac{\text{m}}{\text{s}^2}) (.1 \text{ m})$$

Manometer Solution Problem

**J R Backhurst, J H Harker, J.F.
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