## **Pressure in a Capillary Tube**









Figure above shows 3 identical capillary tubes with one end sealed and containing a column of mercury.  $P_A$ ,  $P_B$  and  $P_C$  are the gas pressure in the capillary tubes respectively. Find the value of  $P_A$ ,  $P_B$  and  $P_C$ . [Atmospheric pressure = 76cmHg]

 $[P_A = 76 \text{cmHg}, P_B = 78 \text{cmHg}, P_C = 74 \text{cmHg}]$ [Solution]

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## Example 2



Figure 9 shows some air trapped in a J-tube. Find the pressure of the trapped air. [Density of water =  $1000 \text{ kg/m}^3$ ; Atmospheric pressure = 100,000 Pa]

 $[P_{gas} = 102,000 Pa]$ [Solution]

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