

# Manometer Problems Answers

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Example Problem with Complete Solution - Learn Thermo

Solution for 3.20 Consider the two-fluid manometer shown. Calculate the applied pressure difference. P1 P2 -Water- 10.2 mm Carbon tetrachloride

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Relation between densities of water and mercury is;  $d_{water} < d_{mercury}$  and  $P_0 = 75 \text{ cm Hg}$ . X gas in open end manometer;  $P_X = 75 \text{ cm Hg} + 30 \text{ cm Hg}$ . Y gas in open end manometer;  $P_Y = 75 \text{ cm Hg} + 30 \text{ cm H}_2\text{O}$ . Z gas in closed end manometer;  $P_Z = 75 \text{ cm Hg}$ . Since  $d_{water} < d_{mercury}$  pressure of Hg is larger than pressure of  $\text{H}_2\text{O}$ .

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Steps in Solving Manometer Problems. Ordinarily, it is easier to work in units of pressure head rather than pressure for solving any manometer problem. Draw a sketch of the manometer approximately to scale. Decide on the fluid of which head are to be expressed. Water is more desirable.

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