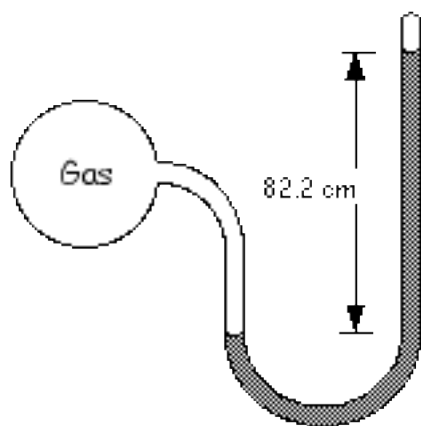# Manometer and Pressure Practice #1

Name: _____

Find the pressures on the gases in the open-end and closed-end tubed manometers. Assume that the liquid in each manometer is mercury (Hg).

Pressure Unit	Standard Pressure
Atmosphere	1 atm
mm Hg	760 mm Hg
Torr	760 Torr
Kilopascal	101.325 kPa

1) Give the pressure on the gas shown here in atmospheres.

Gas

82.2 cm

2) Give the pressure on the gas shown here in kilopascals.

Gas

740 mm
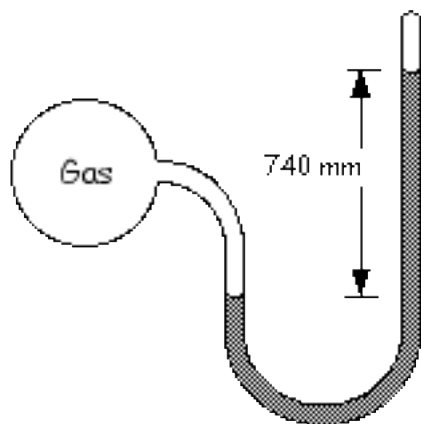
3) If the atmospheric pressure is 735 mm Hg, what is the pressure of the gas in the manometer in Torr?

Gas

24 cm

Gas

463 mm
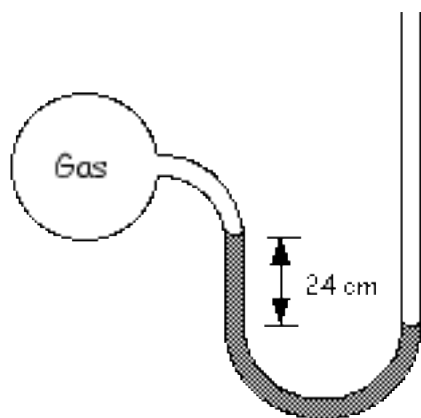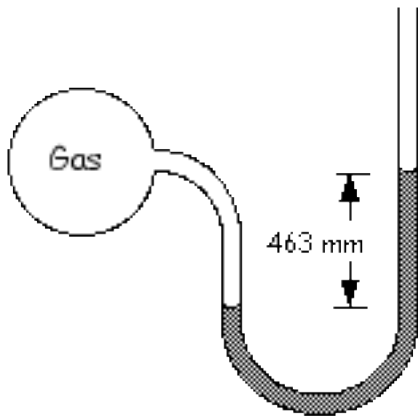
4) What is the pressure on the gas in the manometer in atmospheres if the atmospheric pressure is 805 mm Hg?

5) What is the pressure on the gas in the manometer in kPa if the atmospheric pressure is 97.8 kPa?

Gas

132 mm
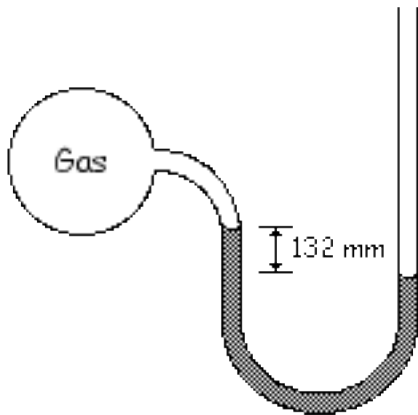
6) What is the atmospheric pressure in atm if the pressure of the gas in the manometer is 1350 mm Hg?

Gas

773 mm