$$Y_{W} = P_{W} \cdot g = 1000 \, \text{kg} \cdot 9.81 \, \text{m/s}^{2}$$

$$Y_{Hg} = P_{Hg} \cdot g = 56_{14g} P_{W(Q \, \Psi^{2} C)} \cdot g = 13.56 \cdot 9.81 \cdot 10^{3} P_{QM}$$

$$13.56 -) 56 = P_{C}$$

Parm 3m Maine + Tw. hw = Mother + htg. Vttg $\frac{1}{2}\int_{-1}^{1}\frac{1}{3m}ds$ 3m = 2.9m + hHg = 0.1m

Problema 1a

(PAINE - PATM) = hto Ytto - hw Yw

PAINE, MAN = htto Ytto - hw Yw

= (SGy Yw). htto - hw Yw

= Yw (SGy hy - hw)

= 9.8 x 13 Por (13.56.0.1 m - 1m) = 3.5 x 10 m

PATE, MAN = 3.5 x Por

Problema 1a

Maine, 12 Paint, Dines Poins, 12 + hw Tw = Poin, nich + hy Hg

Problema 1c

$$P = PRT$$

$$P_{\Lambda} = P_{\Lambda} RT_{\Lambda}, T_{I} = T_{0}$$

$$P_{0} = P_{0} RT_{0}, T_{I} = T_{0}$$

$$P_{\Lambda} = P_{1} = \frac{m_{\Lambda}}{V_{\Lambda}} = \frac{V_{0}}{V_{0}}$$

$$P_{0} = V_{\Lambda}$$

Dho = N1,0 - hRo Problema 1c $\Delta h_0 = (2.9+1) - 3m$ 240 Dho = DHiz+ Alt pan 3417 + AHDEN = 0.9 = DV Hg, DE AHE = AHDER DAit = DHDon, 3-75 DHR. W. lix = DHgan W. loven DHZ = DHOTOL & LDE DA = 0.12 W

P1 = Hano. AE No V1 HAM. 1 AE $=\frac{4\text{Am}_{0}}{4\text{Am}_{0}}=\frac{3\text{m}}{4\text{m}_{0}}=\frac{3\text{m}}{3\text{m}-0.15}$ $\frac{1}{P_{17} + hw v_{w}} = \frac{1}{P_{0} - 3} + \frac{1}{3 - 0.15} + \frac{1}{49} v_{y}$ POR Po=101 KPO)

Problema 1c

$$N_{12} = \frac{3}{3-0.15}$$
, $(101 \text{ kpc}) + 123.1 \text{ kPc}$