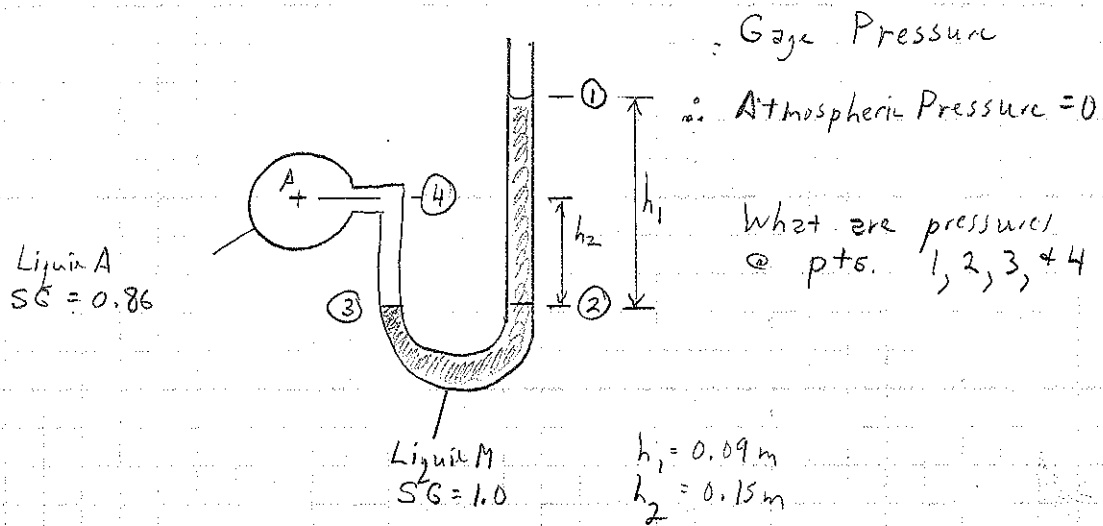


# Manometer Principles



- Pt. 1 - Pressure = 0
- Pt 2 - Pressure =  $h_1 \gamma_m = h_1 (S.G.) \gamma_w$
- Pt 3 - Pressure @ 3 = Pressure @ 2 (liquid is at same elev.)
- Pt. 4 - Pressure @ 4 = Pressure of Vessel A = Pressure @ 3 -  $h_2 \gamma_A$   
= Pressure @ 3 -  $h_2 (S.G.) \gamma_w$

## Summary

- ① As you go down pressure increases by  $\Delta h \gamma$
- ② As you go up pressure decreases (SG & hts) by  $\Delta h \gamma$
- ③ As long as you know pressure @ some pt, you can determine pressures @ all other pts.

- Pressure @ 1 = 0 for gage  
atmospheric for absolute pressure