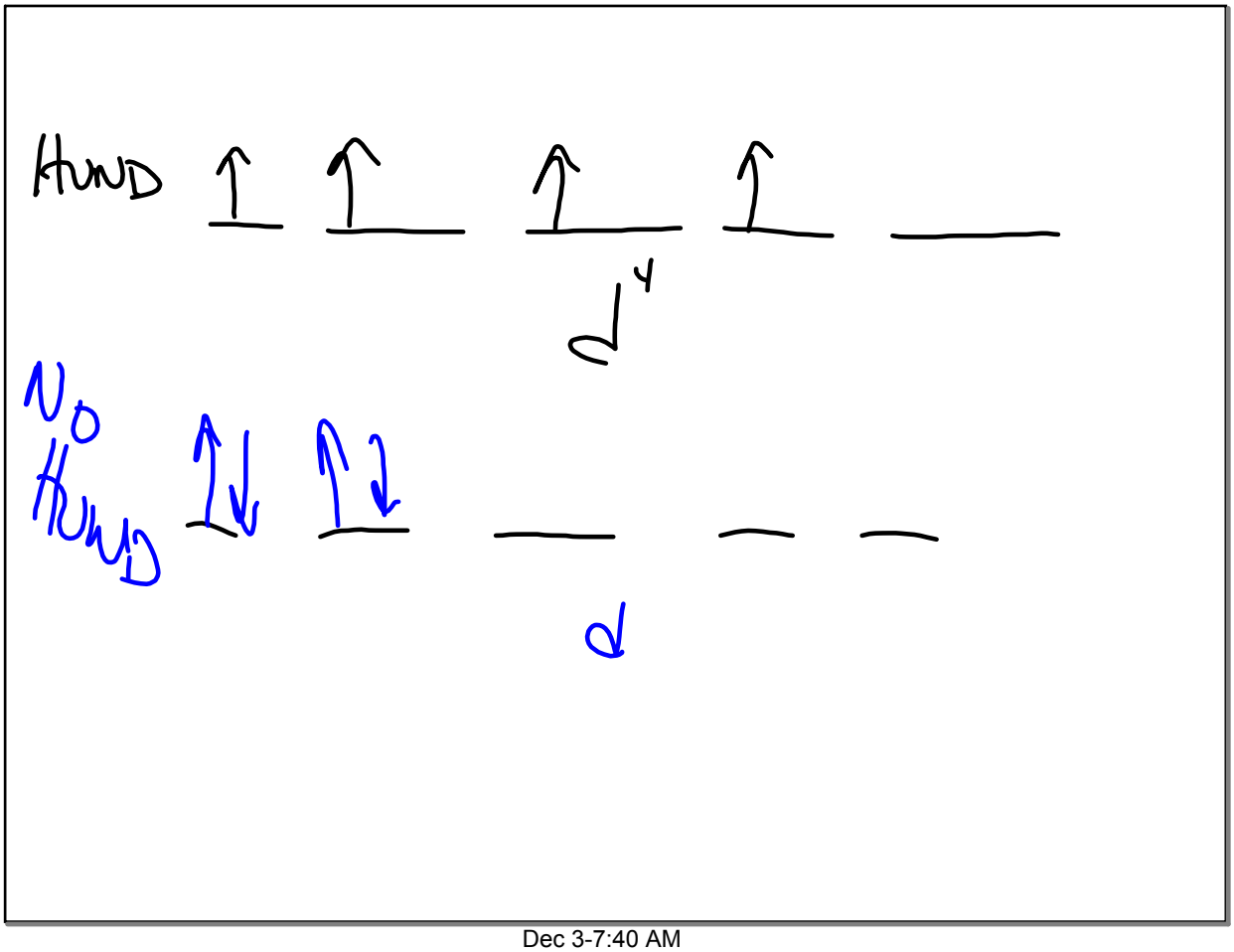


Dec 3-7:40 AM

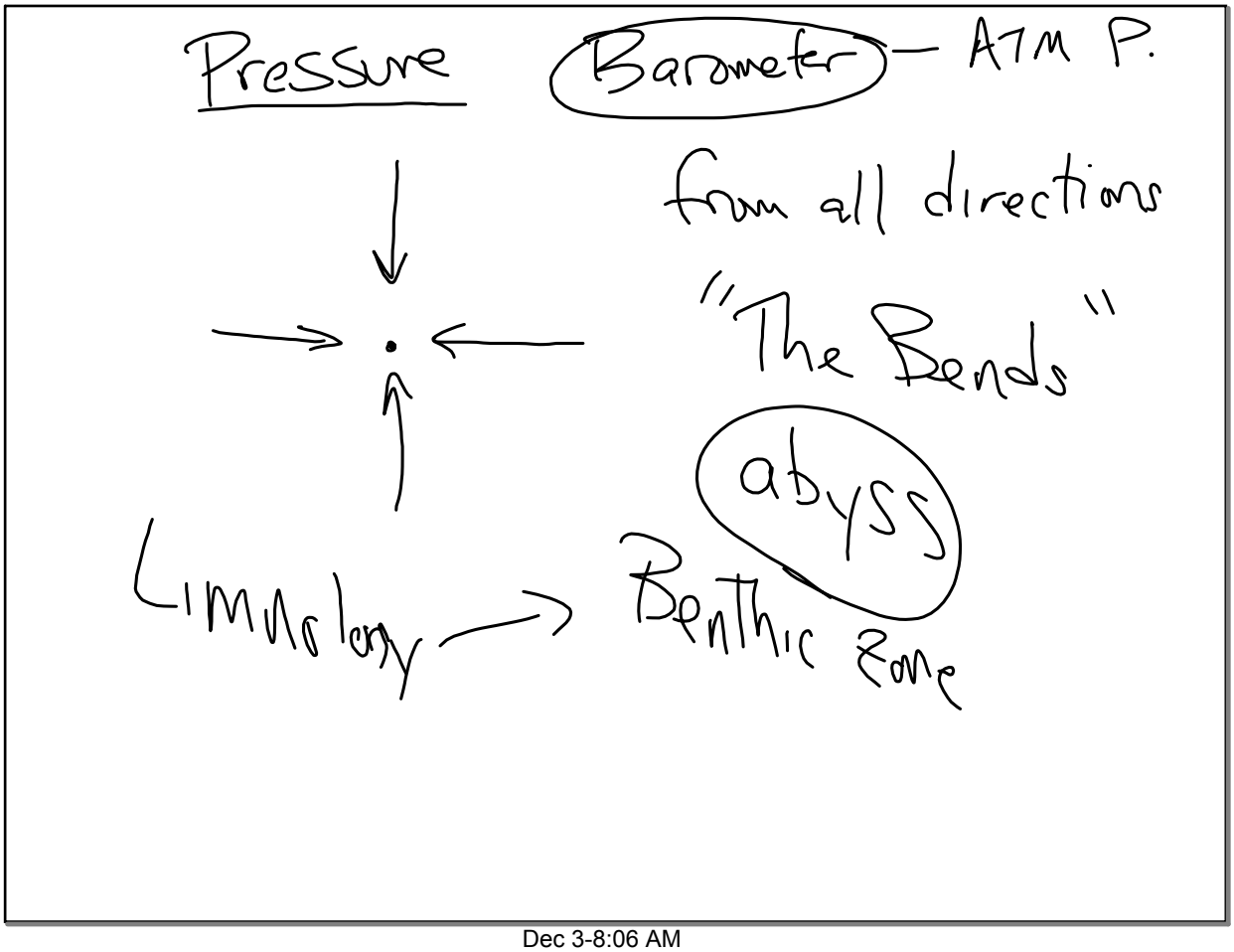
Pressure - CHAP 10

(Chap 8+9 - Bond)

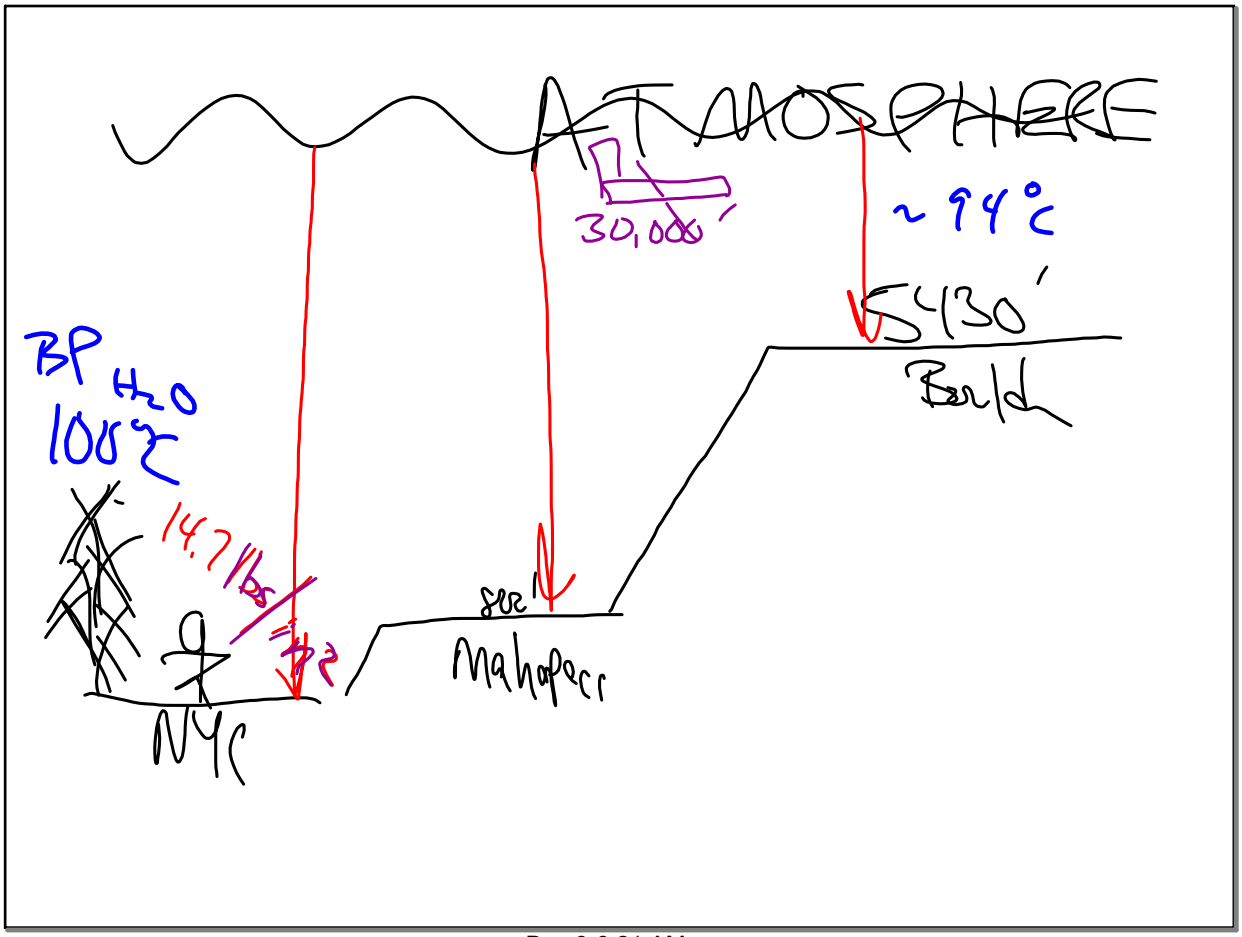
- Types of Bond, → Ionic → P
  → Covalent → NP
- Formal charge = Valer − (Nb + ½b) (coordinate
- Bond dissociation energy = Bonds broken − bonds formed
  react − Prod
- Eneg, IE (Radius)
- VSEPR - SSSS (Shapes) - Bond X's − σ*
- AO → MO σ + π — π*
  — σ
  — π

Bond order = ½ (b − anti: bond)

Dec 3-7:57 AM



Dec 3-8:06 AM

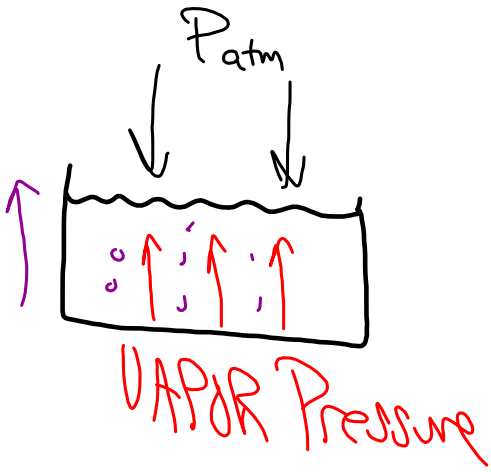


Dec 3-8:21 AM

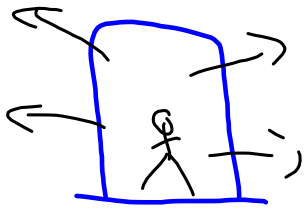
Boiling

VP ≥ Patm

$P = \frac{Force}{Area}$



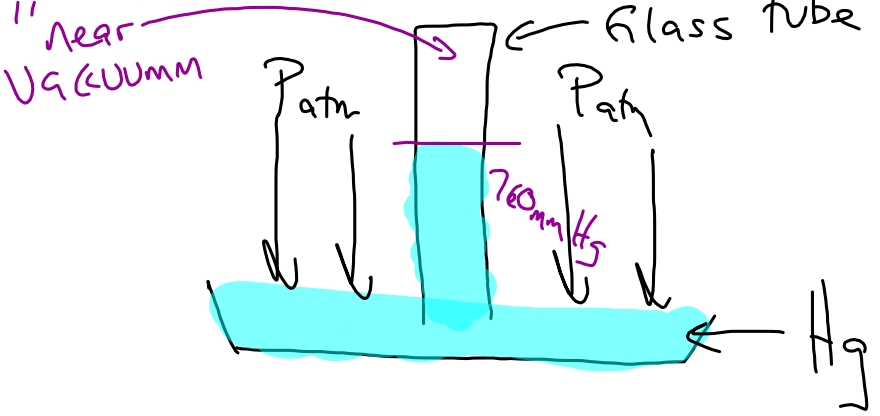
Why doesn't H_2O boil at room T?



Dec 3-8:40 AM

Barometer - Toricelli

Atmospheric Pressure



Dec 3-8:52 AM

Regulator / Flowmeter – Reduces pressure of a confined gas

Manometer

Dec 3-9:04 AM

Patm ⇒ 101.35 kPa
760 torr or 760 mmHg
1 atm

PV = nRT
atm

$\frac{PV}{T}$

500 mmHg = _____ atm

$$\frac{500\ \text{mmHg}}{760\ \text{mmHg}} \left| \frac{1\ \text{atm}}{} \right. = 0.66\ \text{atm}$$

Dec 3-9:12 AM