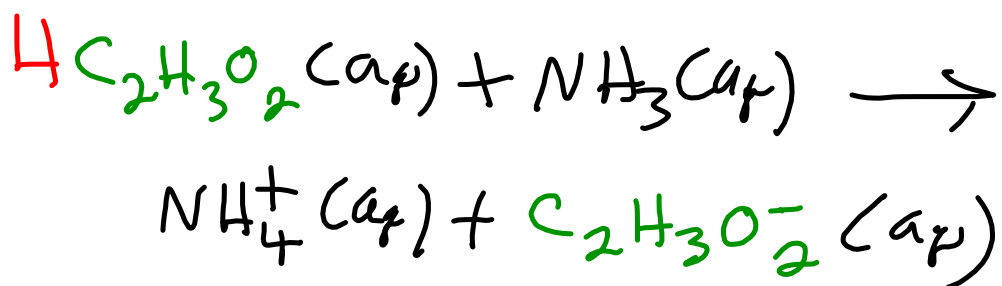
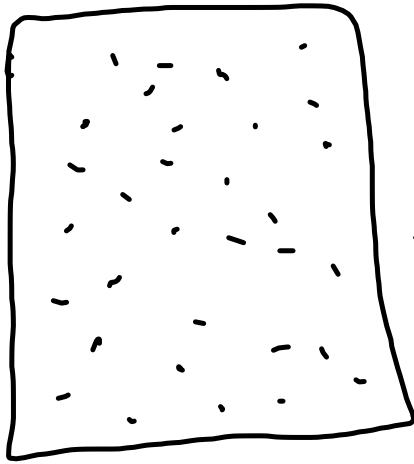


Net ionic eqn:



A	STRONG	neutral salt	acidic salt
C			
1			
D	weak	basic salt	?
		STRONG	weak
		BASE	

# GASES (THE GAS LAWS)



parameters of interest:

Pressure ( $P$ )

Volume ( $V$ )

# of moles ( $n$ )

# DIRECT PROPORTIONALITY

X	Y
1	1.20
2	2.40
3	3.60
4	4.80
5	6.00

$$Y \propto X$$

$$Y = k \cdot X$$

$$k = \frac{Y}{X} = \frac{1.20}{1} = 1.20$$

$$Y = 1.20X$$

$$Y = 1.20(5) = 6.00$$

# INVERSE PROPORTIONALITY

X	Y
1	120
2	60
3	40
4	30
5	24

$$y \propto \frac{1}{x}$$

$$y = k \cdot \frac{1}{x}$$

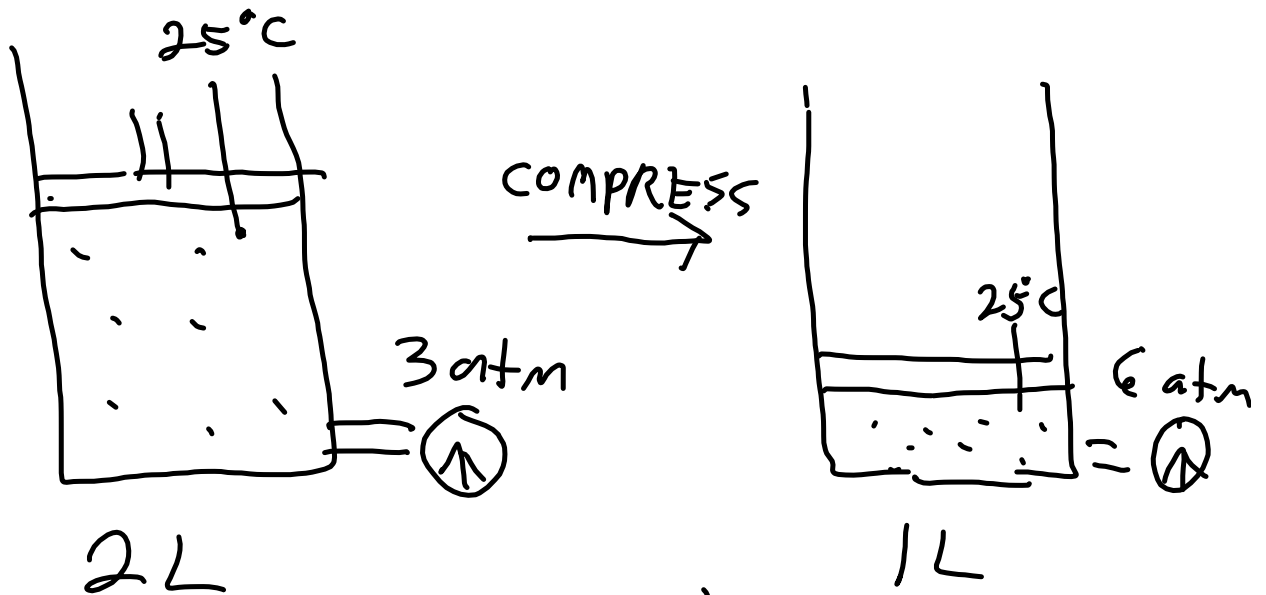
$$= \frac{k}{x}$$

$$xy = k$$

$$(1)(120) = k = 120$$

$$y = \frac{120}{x}$$

$$y = \frac{120}{5} = 24$$



$$P \propto \frac{1}{V} \quad \text{Boyle's Law}$$

$$P = k \cdot \frac{1}{V} = \frac{k}{V}$$

$$PV = k$$

$$P_1 V_1 = P_2 V_2$$

2-point form of  
Boyle's Law