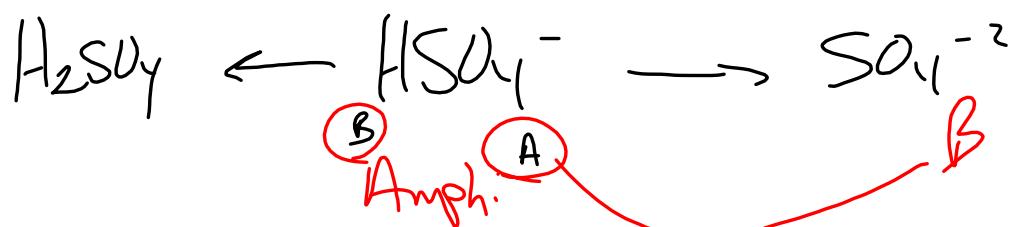
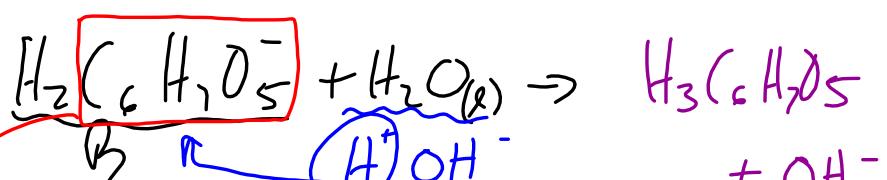


16/10

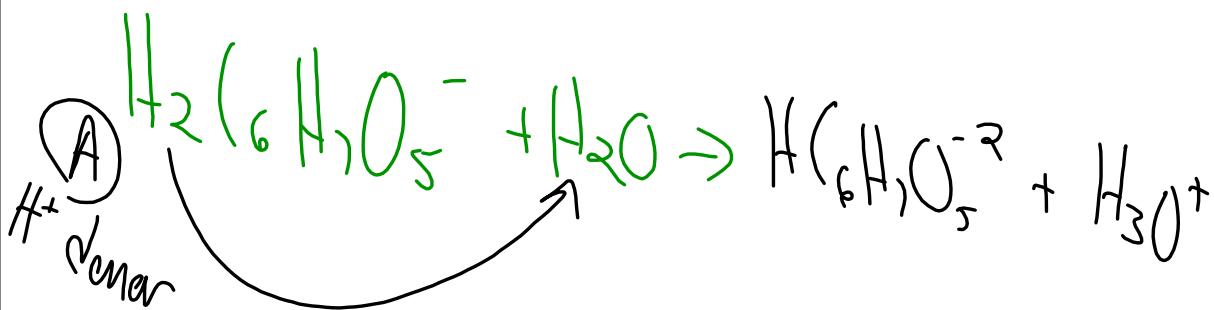


Feb 21-7:38 AM

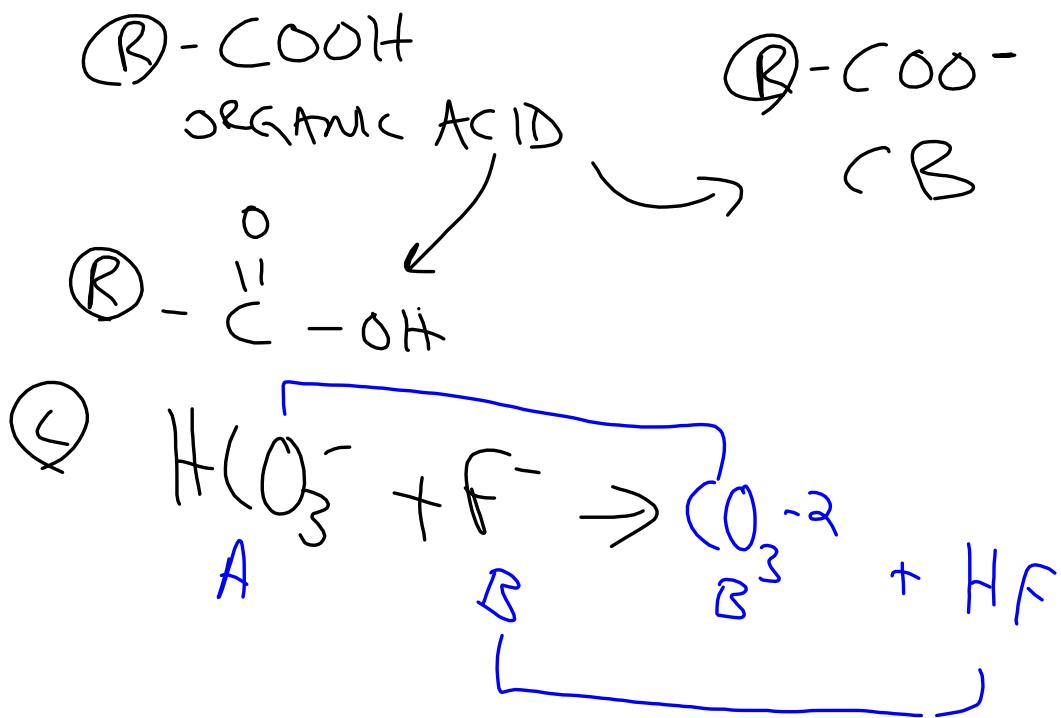
16/22

 H^+ acceptors

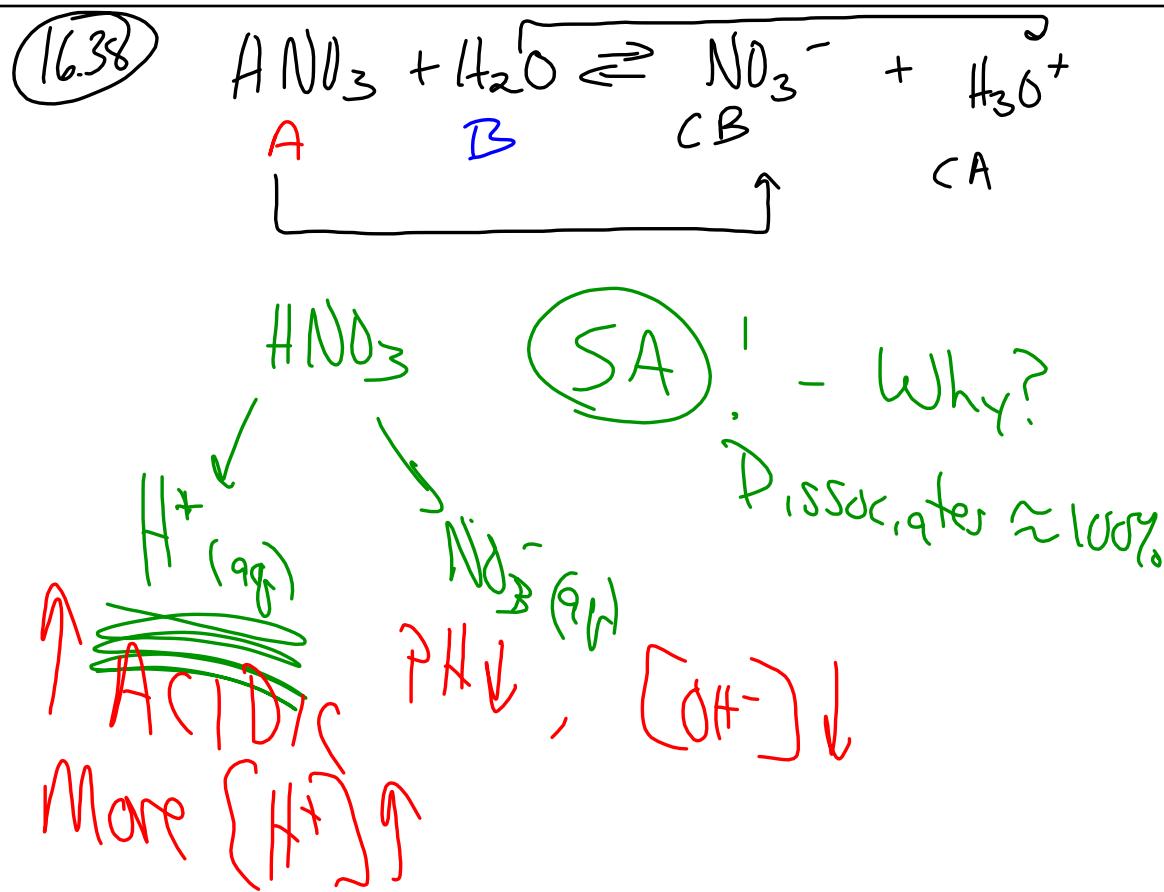
Polyatomic ions
NEVAHHH Change



Feb 21-7:56 AM



Feb 21-8:01 AM



Feb 21-8:04 AM

(16.38)

$$[\text{OH}^-] = 0.014\text{M}$$

pH = ?

$$\text{pOH} = -\log [\text{OH}^-]$$

$$\text{pOH} = -\log (0.014)$$

$$-\text{pOH} = \log (0.014)$$

$$\text{pOH} = 1.85$$

$$\text{pH} = 12.146$$

$$\text{pH} + \text{pOH} = 14$$

$$\text{pH} = -\log [\text{H}^+]$$

$$\text{pOH} = -\log [\text{OH}^-]$$

$$\text{pH} + \text{pOH} = 14$$

$$K_w = [\text{H}^+][\text{OH}^-] = 1 \times 10^{-14} @ 25^\circ\text{C}$$

Feb 21-8:10 AM

$$\text{pH} = 6.6$$

$$[\text{H}^+] = 2.51 \times 10^{-7}$$

$$[\text{OH}^-] = 4 \times 10^{-8}$$

$$\text{pH} = -\log [\text{H}^+]$$

$$[\text{H}^+][\text{OH}^-] = 1 \times 10^{-14}$$

$$6.6 = -\log (\text{H}^+)$$

$$[\text{OH}^-] = \frac{1 \times 10^{-14}}{2.51 \times 10^{-7}}$$

$$-\underline{6.6} = \log (\text{H}^+)$$

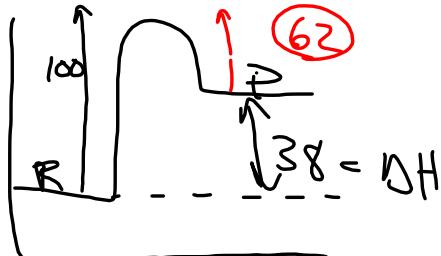
$$[\text{H}^+] = 2.51 \times 10^{-7}$$

Feb 21-8:15 AM

Examl

$$\textcircled{4} \quad t_{1/2} = \frac{0.693}{K} = \frac{0.693}{35 \text{ min}^{-1}} = 0.0198 \text{ min}$$

$\times 60$
 $\underline{\underline{1.188 \text{ sec}}}$

(5)

Feb 21-8:40 AM

(7)

$$\frac{1}{A_t} = Kt + \frac{1}{A_0}$$

$$\frac{1}{A_t} = (1.2 \times 10^{-2}) \underline{(180)}^{\text{sec}} + \frac{1}{0.045}$$

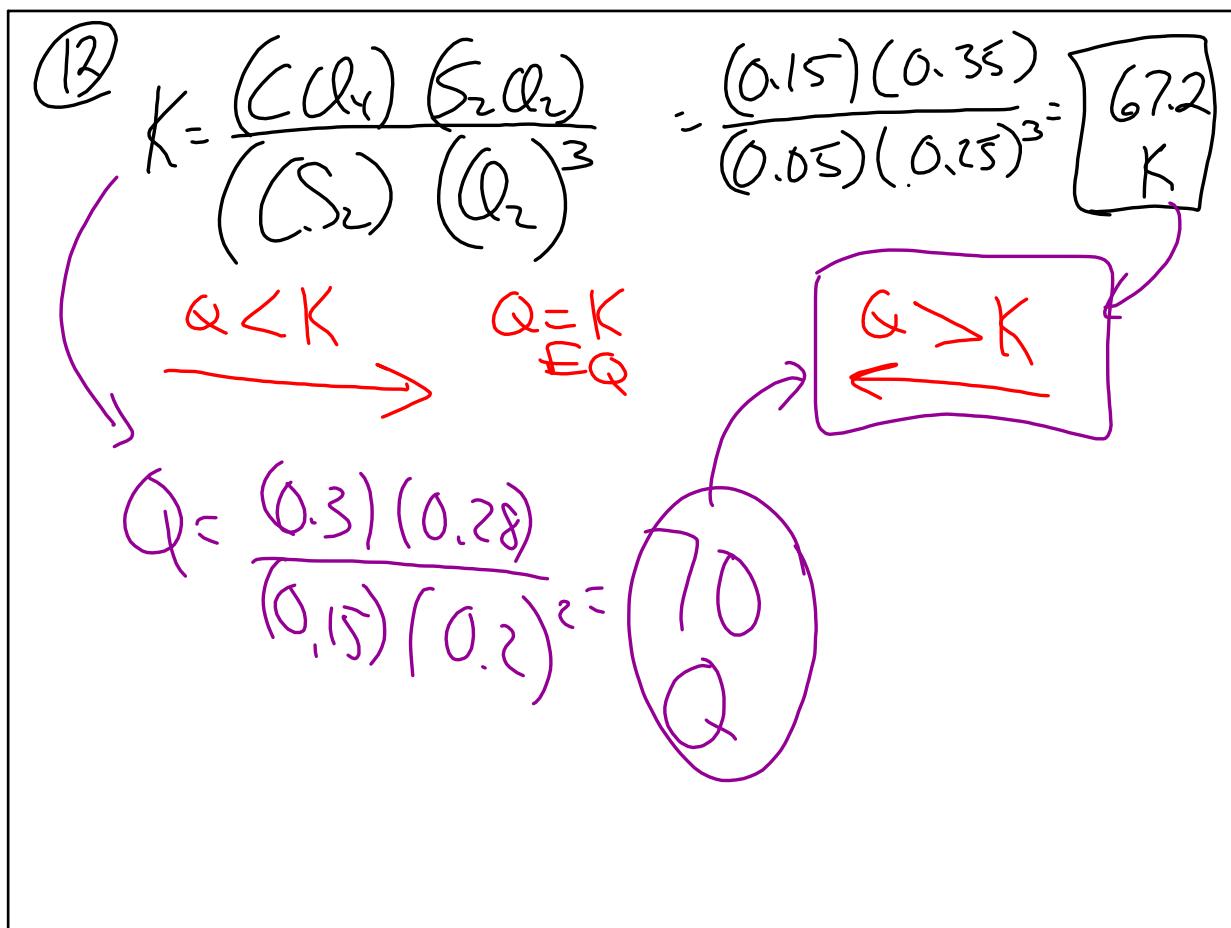
sec

(8)

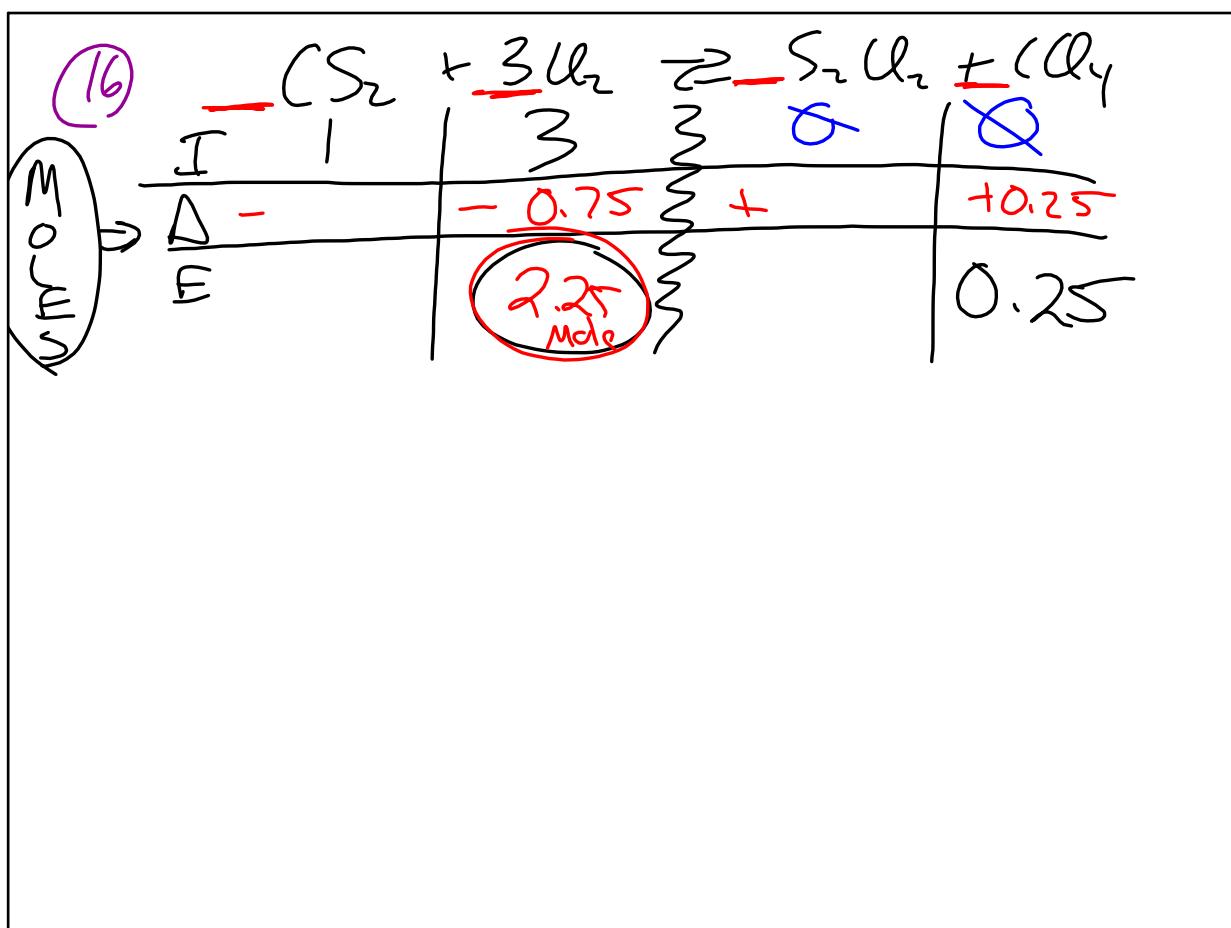
$$t_{1/2} = \frac{1}{K(f_0)} = \frac{1}{(1.2 \times 10^{-2})(0.3)} = 277.78 \text{ sec}$$

$\div 60$
 $\underline{\underline{4.63 \text{ min}}}$

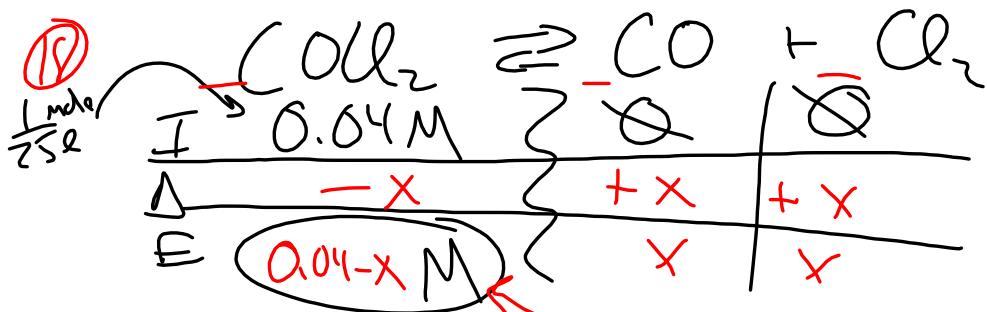
Feb 21-8:49 AM



Feb 21-8:54 AM



Feb 21-9:00 AM



$$K = \frac{(\text{CO})(\text{Cl}_2)}{(\text{COCl}_2)} = \frac{8.05 \times 10^{-4}}{1}$$

$$\frac{(x)(x)}{0.04 - x} = \frac{8.05 \times 10^{-4}}{1}$$

$$x = 0.0347$$

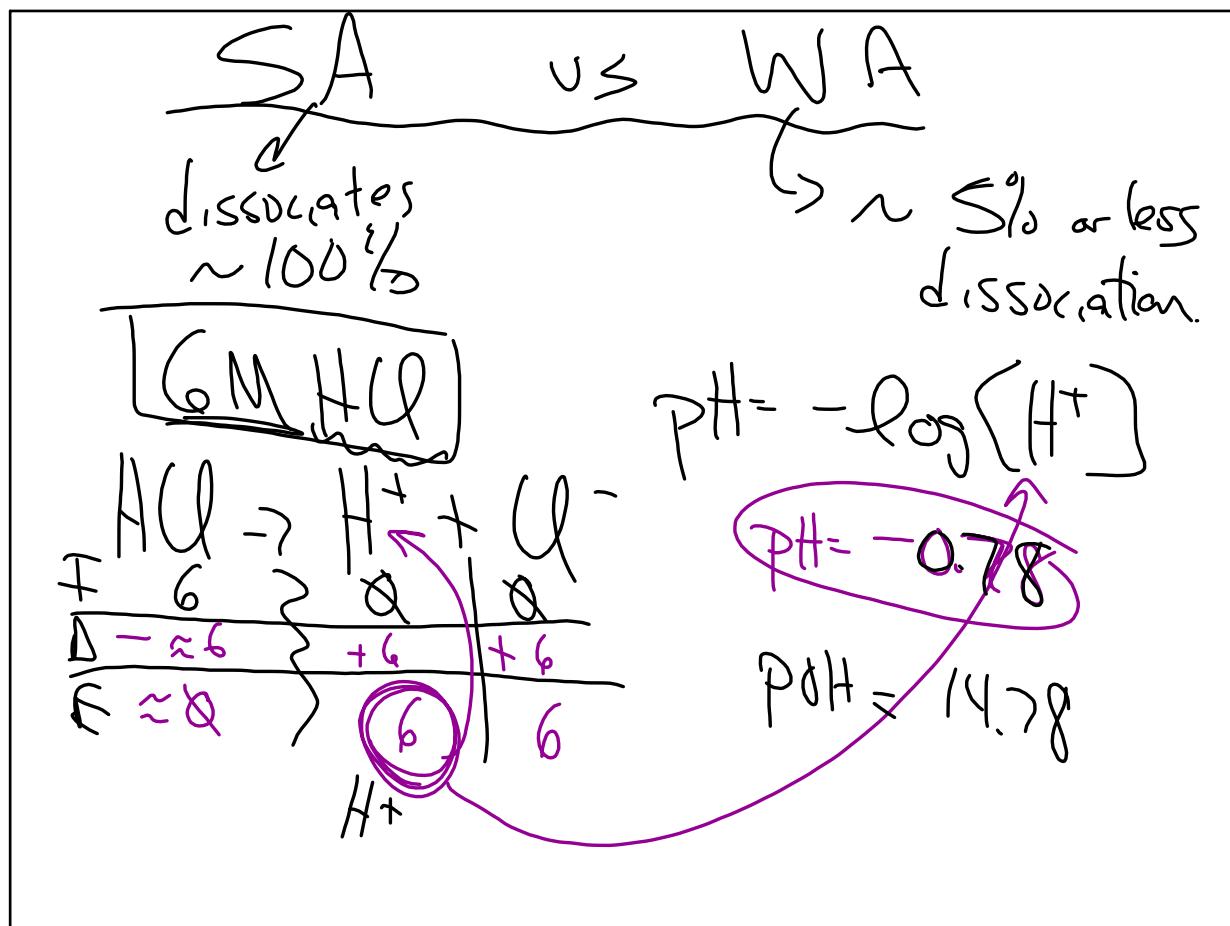
Feb 21-9:03 AM

(FCI)

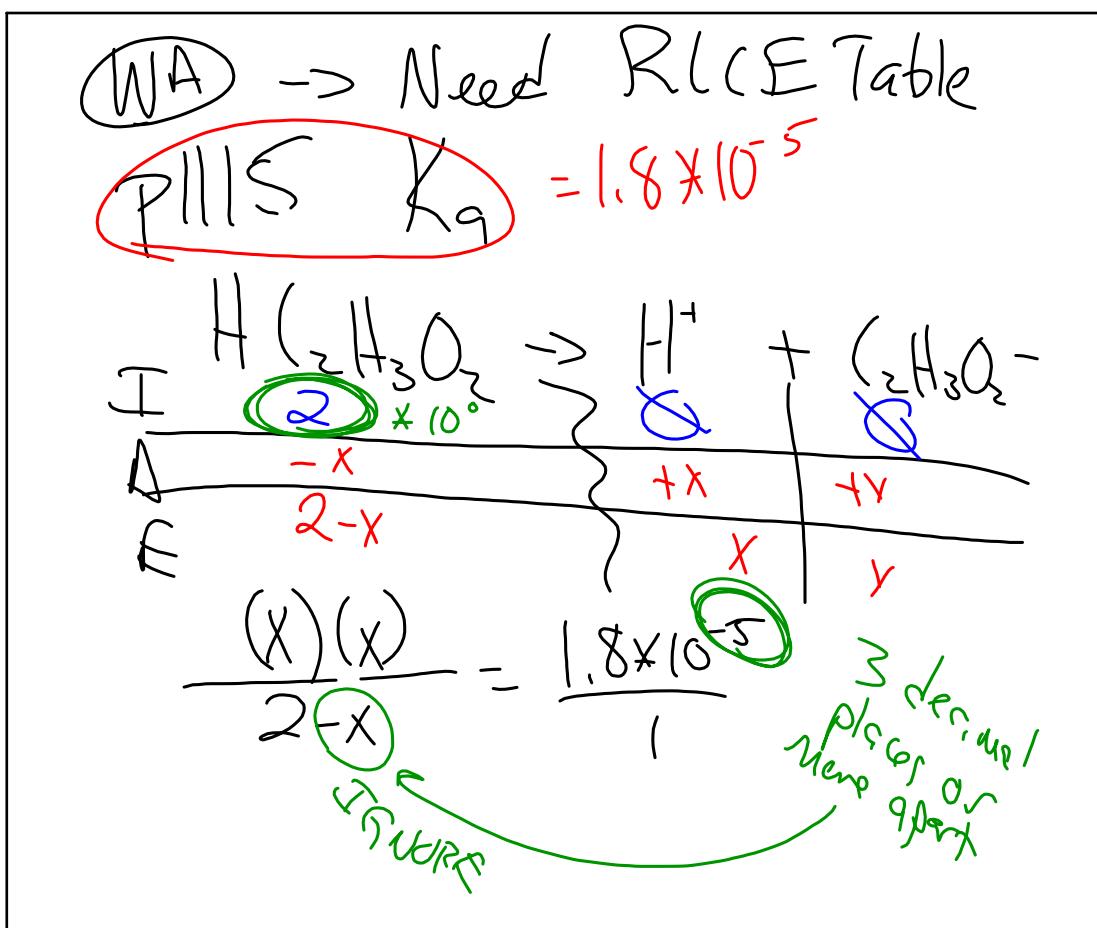
$$\text{Rate} = K[A][B]^2$$

$$*9 \leftarrow (3)^2$$

Feb 21-9:07 AM



Feb 21-9:09 AM



Feb 21-9:12 AM

$$16 / 39 + 60$$

Feb 21-9:17 AM