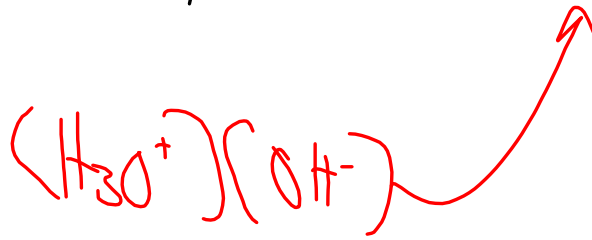
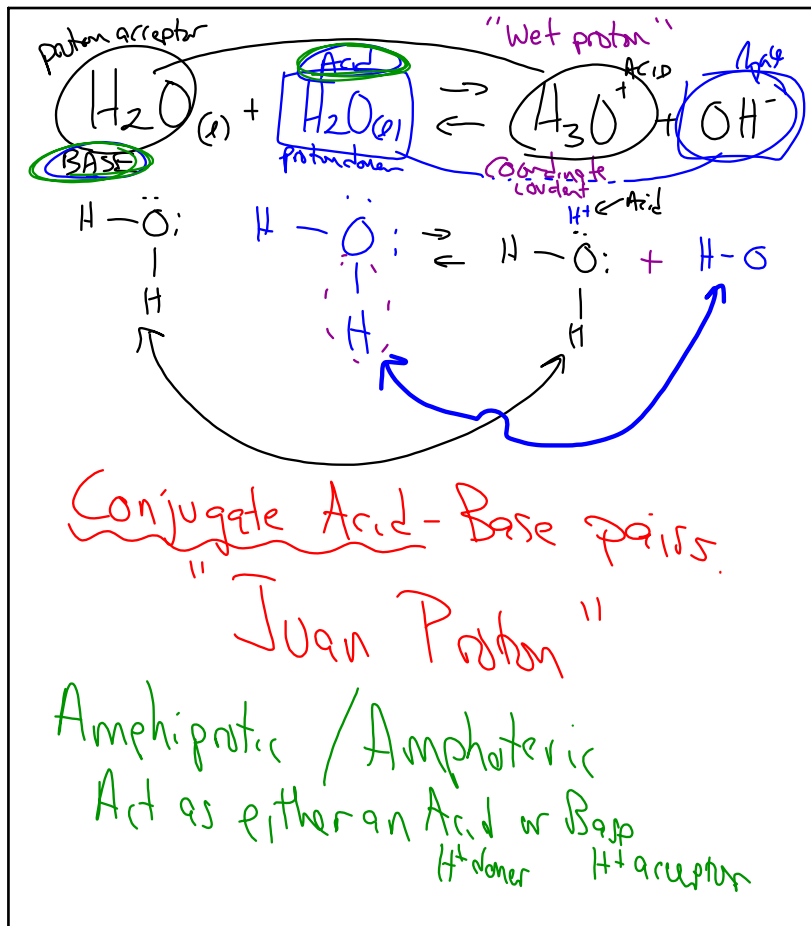




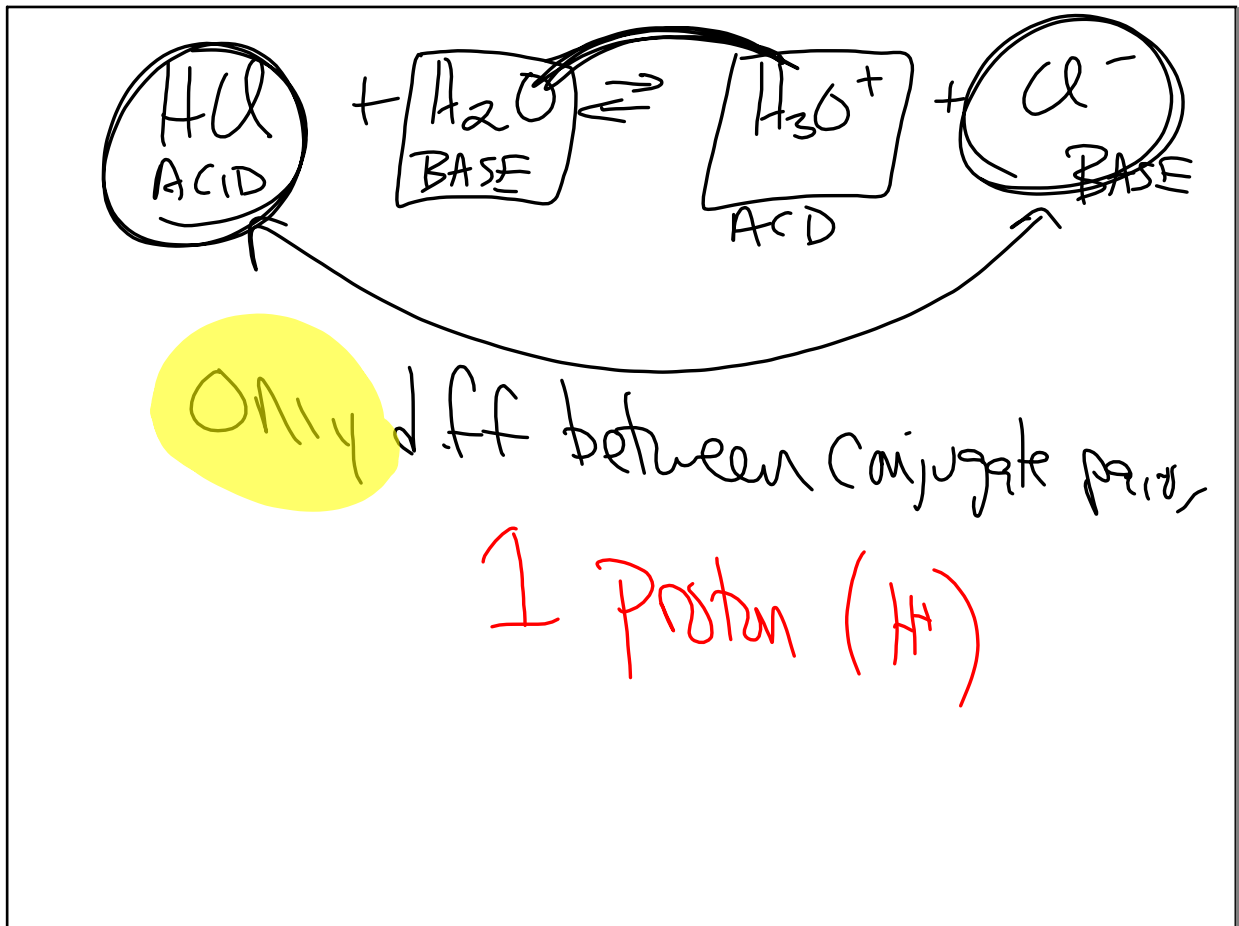
$$K_w = \frac{[\text{H}^+][\text{OH}^-]}{1} = 1 \times 10^{-14} \text{ at } 25^\circ\text{C}$$



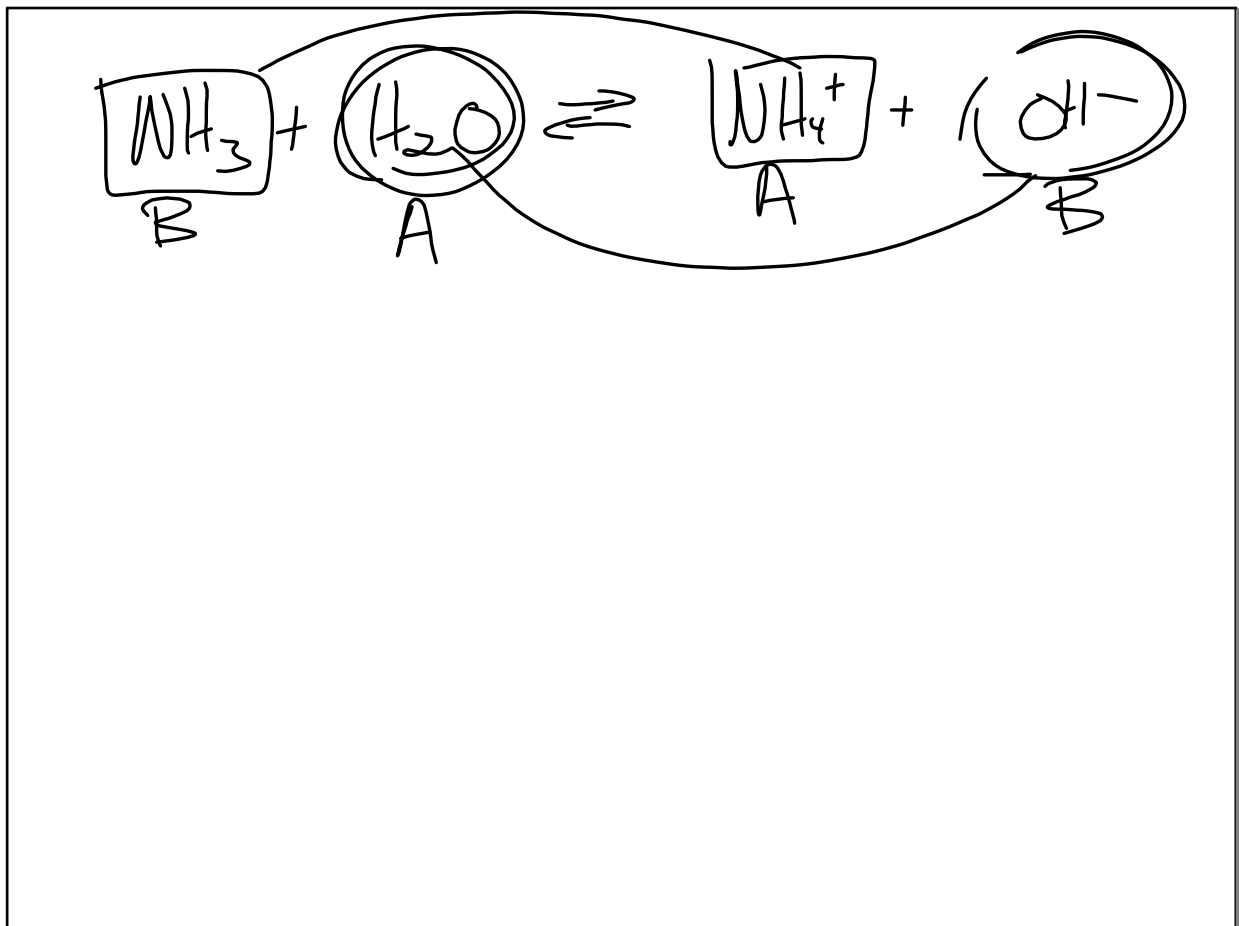
Feb 16-7:44 AM



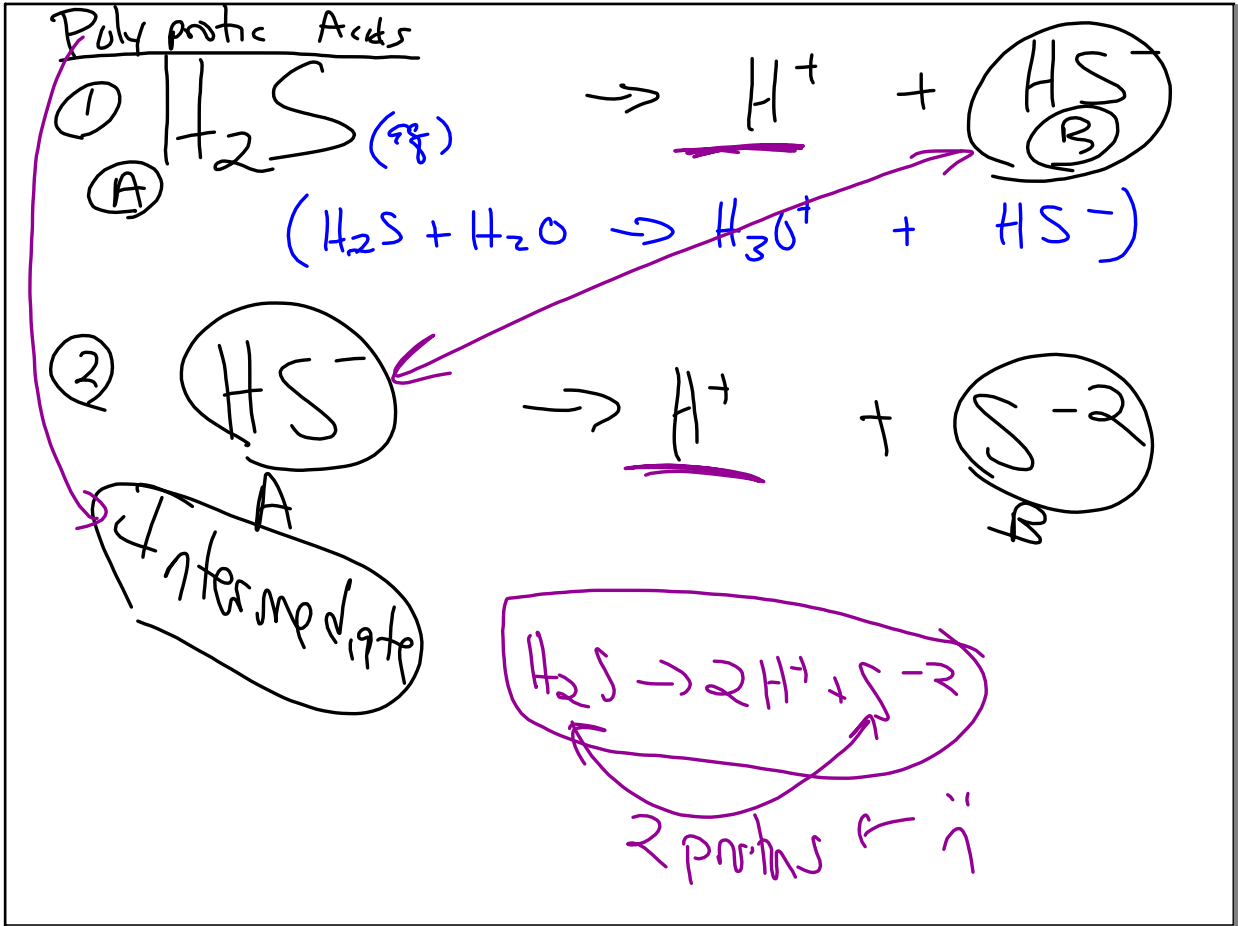
Feb 16-8:42 AM



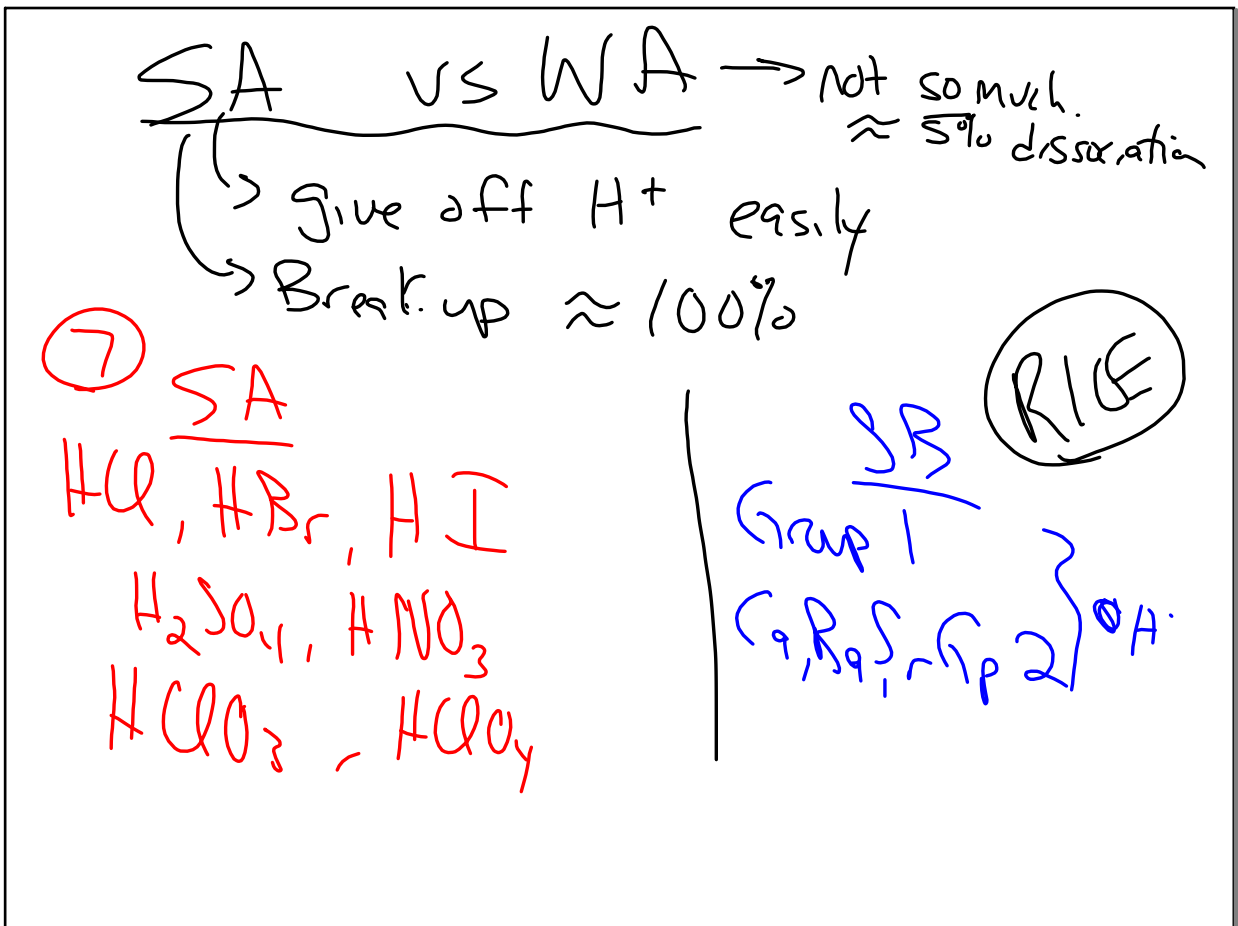
Feb 16-8:52 AM



Feb 16-8:58 AM



Feb 16-9:00 AM



Feb 16-9:04 AM

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

$$-\log K_w = -\log ([H^+][OH^-]) = 1 \times 10^{-14}$$

$$-\log K_w = -\log H^+ + -\log OH^-$$

$$-\log (1 \times 10^{-14})$$

$$pK_w = 14 = pH + pOH$$

$$pH + pOH = 14$$

$$pH = -\log [H^+]$$

$$pOH = -\log [OH^-]$$

Feb 16-9:07 AM

$$pH = -\log [H^+]$$

$$pOH = -\log [OH^-]$$

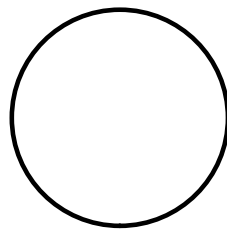
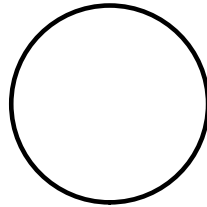
$$pH + pOH = 14$$

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

Feb 16-9:11 AM

$$pOH = 12$$

$$[OH^-] = 1 \times 10^{-12}$$



Feb 16-9:12 AM

$$\checkmark [H^+] = 2.73$$

$$pH = -\log([H^+]) = -\log(2.73)$$

$$\checkmark pH = -0.4 \quad pOH = 14.4$$

$$[OH^-] =$$

Feb 16-9:12 AM

Before
antibody

$$\text{pOH} = -\log [\text{OH}^-]$$
$$14.4 = -\log [\text{OH}^-]$$
$$-14.4 = \log [\text{OH}^-]$$
$$3.98 \times 10^{-4}$$

Feb 16-9:14 AM

16 / 20, 22, 28, 38, 40

Feb 16-9:17 AM