

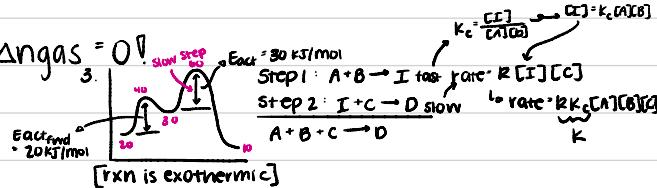
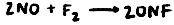
February 24th

* 400 rate ONLY works for WA & WB's

$$K_c = K_p (RT)^{\Delta n_{\text{gas}}}$$

↳ * K_c and K_p are only the same when $\Delta n_{\text{gas}} = 0$!

2. Mechanism

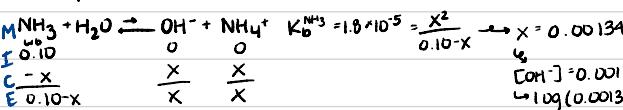
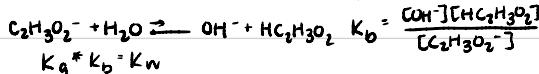


Rules for predicting acidic/basic nature of salts

1. The 5 anions of the monoprotic strong acids are pH neutral



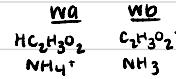
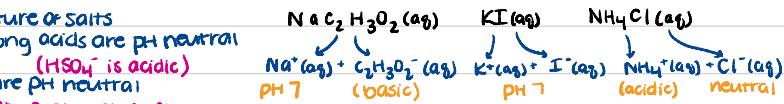
2. The cations of soluble hydroxides are pH neutral



$$K_a \cdot K_b = K_w$$

$$K_a \cdot K_b = 1.0 \times 10^{-14} \quad K_a \cdot K_b = 1.0 \times 10^{-14}$$

$$K_a \cdot K_b = 5.6 \times 10^{-10}$$



pH	Color
2	red
3	red-orange
4	orange
5	yellow-orange
6	yellow
7	green
8	blue-green
9	blue-violet
10	violet

