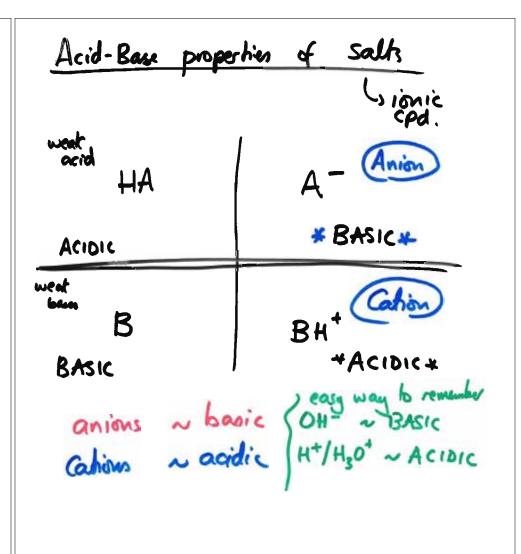
ex:
$$(CN^{-} K_{b} = ? 2.0 \times 10^{-5})$$

 $(CN^{-} K_{a} = ? 2.0 \times 10^{-10})$
 $(CN^{-} K_{a} = 4.9 \times 10^{-10})$
 $(CN^{-} K_{a} = 4.9 \times 10^{-10})$
 $(CN^{-} K_{a} = ? (CN^{-} K_{a} = 1.0 \times 10^{-10})$
 $(CN^{-} K_{b} = 1.0 \times 10^{-5})$
 $(CN^{-} K_{b} = 1.0 \times 10^{-5})$



But, consider STRONG acids
+ STRONG bases.

-) Anion derived from STRONG acido as reutral.

=) Anions derived from weak author basic.

H2SO4 -> H+ + HSO4

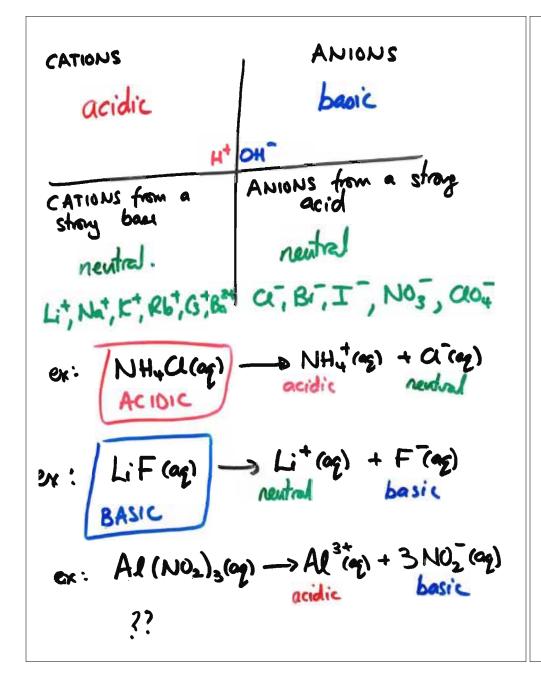
diprohis acid

Ka H+ + SO2
weak acid

- anions from polyprolic acids that shill have H+ to denate are acidic!

all cations are acidic, unless they come from a strong boar, in which case they are neutral.

ex: Lioh Lity + OH - NAOH KOH Rboth Rboth CsOH Csoth Ba(OH) 2 Ba2+



```
Ka (A134) > Kb (NQ-)
ACIDIC if
BASIC if Kb (NO) > Ka (AIM)
NEUTRAL if Ka (A134) = Kb (NO=)
What's the pH of 0.10M NaNOz(ag)?
   NaNoz(95) -> Na+(05) + Noz(05)
   0.10M
                             20
    0.10M
                            (x)
E (0.10-x)
 Kr = [HNOS] [OH]
          [NO2] ea Ka. Kb = Kw
        (x)(x)
```