March 6, 2002

✓ No Labs This Week!

√<u>Exam #2</u>

✓ Conflict? Email me *this week* to schedule alternate time

✓Old exam #2 answers now online

✓ Sunday Review Session?

✓Demo today!

✓Quiz Friday!



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Example: NH₃ (I) as solvent

What is the strongest acid in an NH_3 (I) solvent?

 NH_3 (I) + NH_3 (I) \Rightarrow NH_4^+ (aq) + NH_2^- (aq) strongest acid strongest base

In water, K_a of $NH_4^+ = K_w/K_b \approx 10^{-14}/10^{-5} = 10^{-9}$

>So, any acids with a K_a in water > 10⁻⁹ will be *equally* strong ("leveled") in liquid ammonia

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