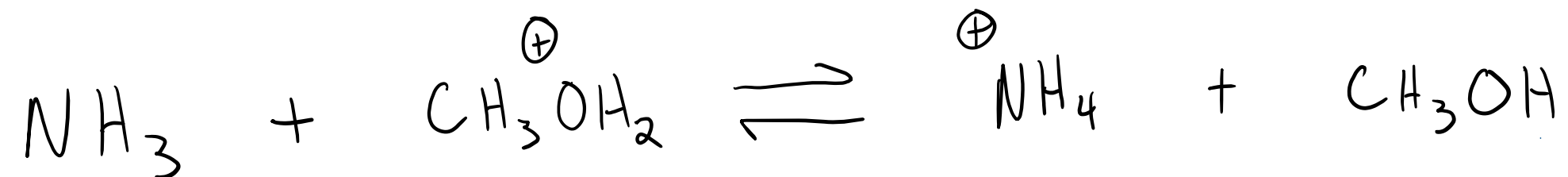


# Acid/Base Review

## Acidity of C-H Bonds

3/13/2023



Which side is favored at equilibrium?

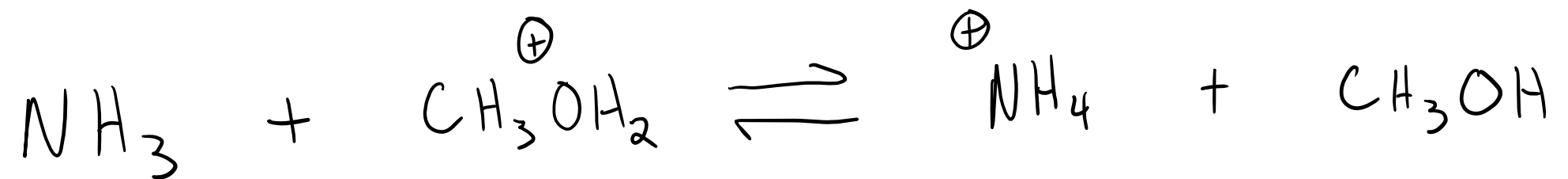
Two ways to approach...

Qualitative:

Quantitative:

# Quantifying Acid Strength

How to use pKa values (to predict an acid-base reaction)



# Comparing Acidity: Qualitatively

1. Charge of molecule

2. Atom bound to H

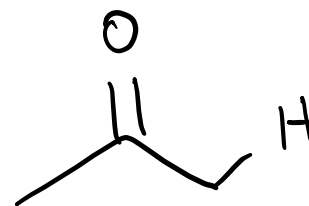
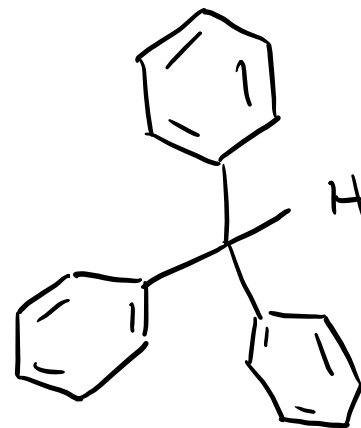
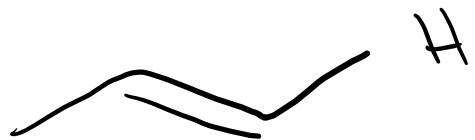
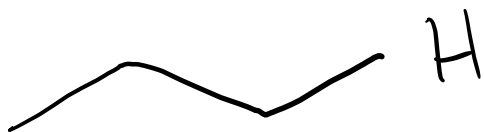
# Comparing Acidity: Qualitatively

## 3. Resonance

## 4. Induction ( $e^-$ donating/withdrawing effects of nearby groups)

What a pKa can tell you

# Acidity of C-H bonds





## Ch 21: "Alpha Carbon" Chemistry

