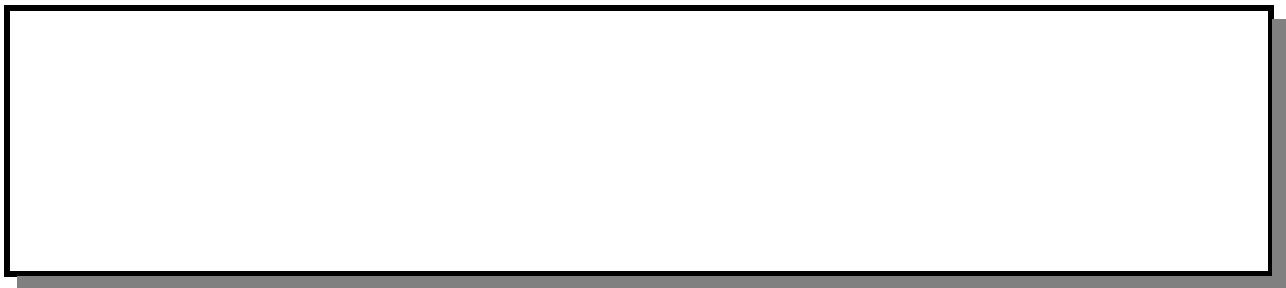




# **Calculating All Species in a Solution of Pure Weak Acid in Water**









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 $K_a$

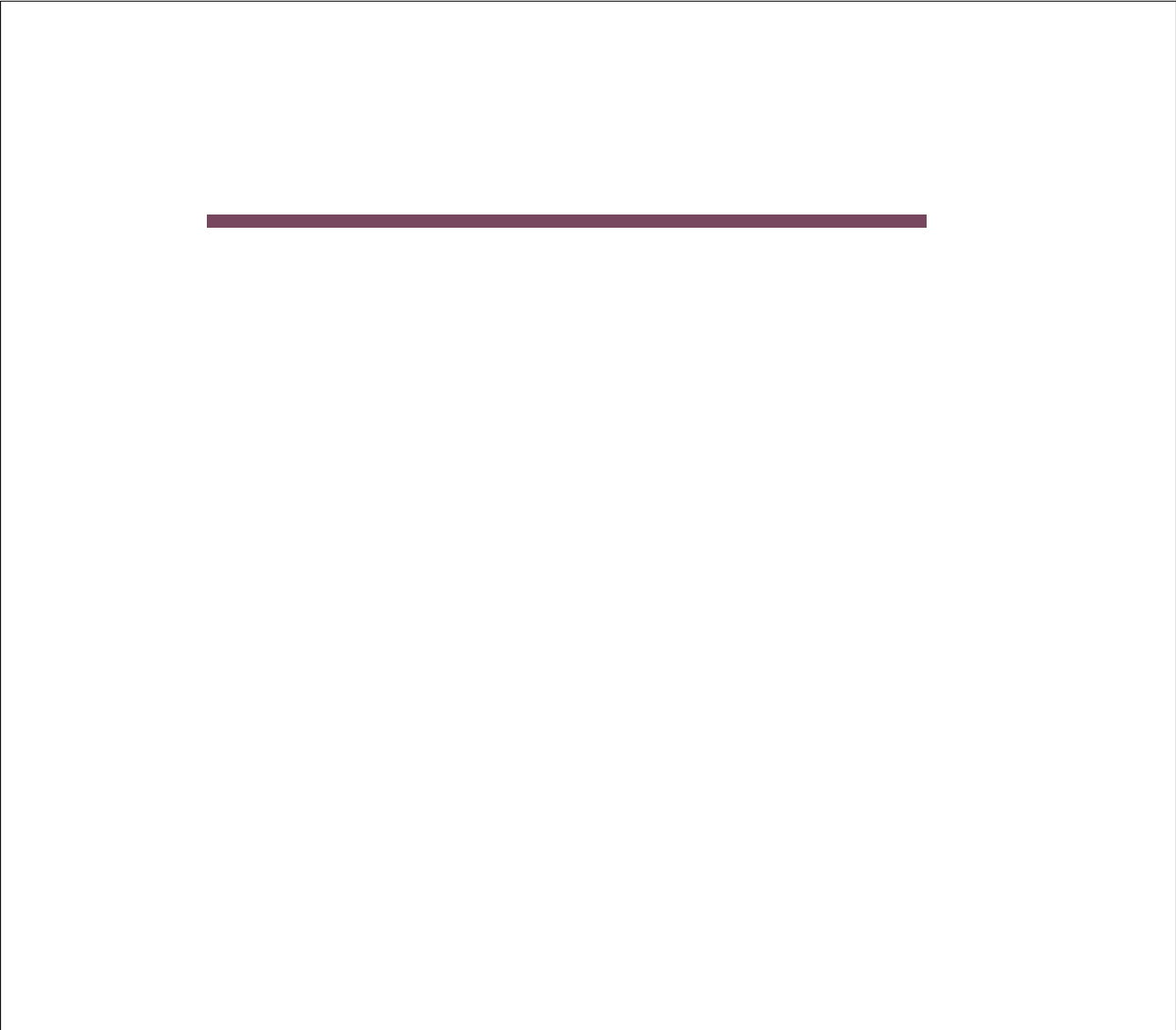


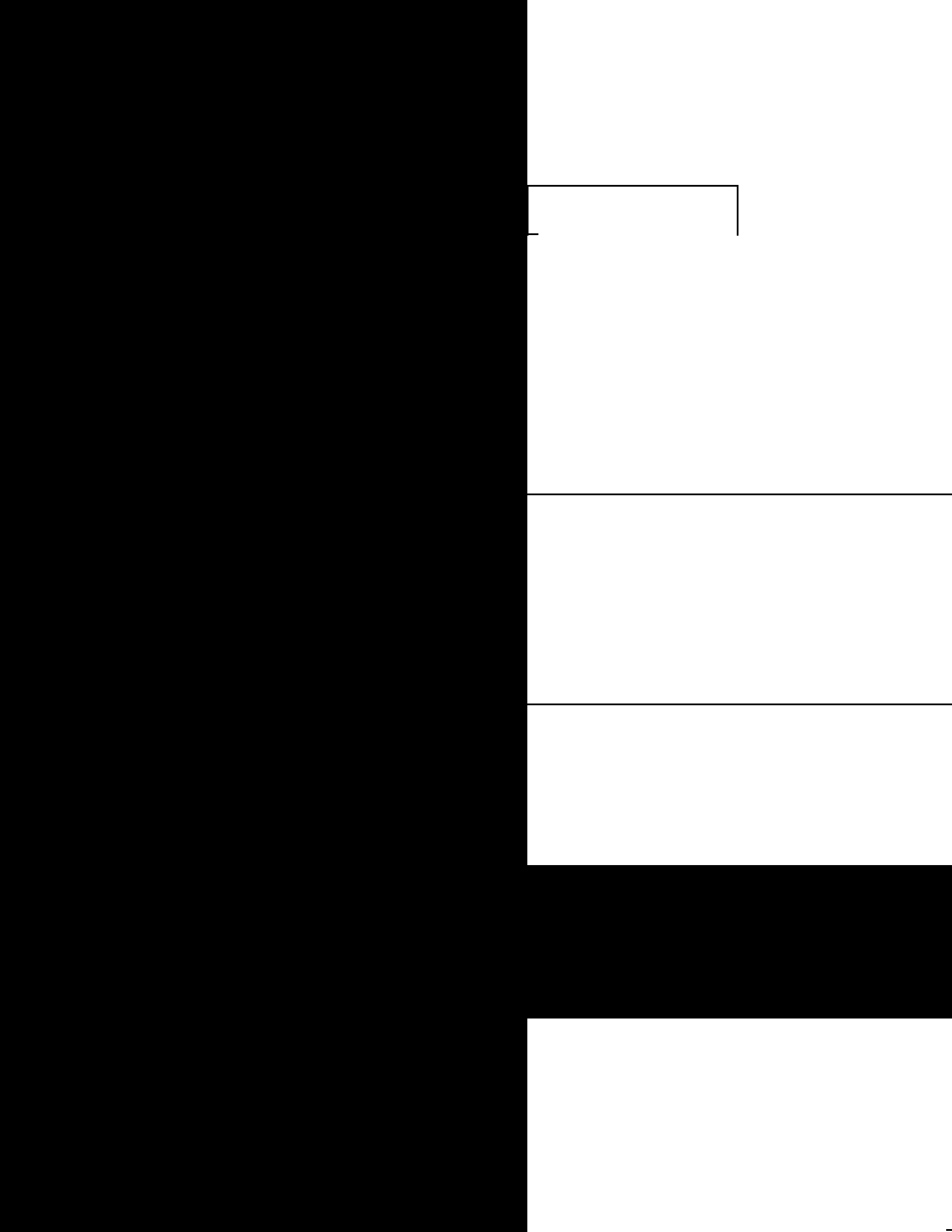
## Weak Acid in Water Calculations



Assumption I: If  $C_{\text{HA}} \gg 10^{-7} \text{ M}$ , assume virtually all  $\text{H}_3\text{O}^+$







$$K_a \quad \text{-----}$$