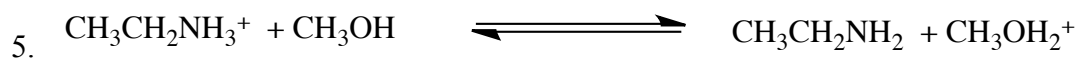
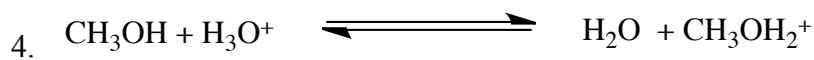
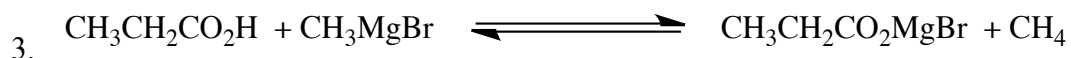
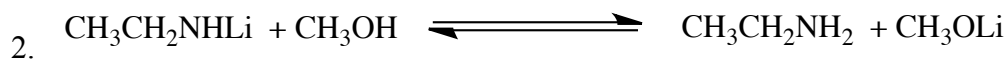
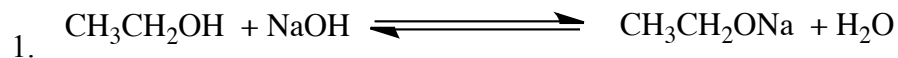


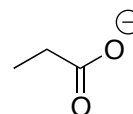
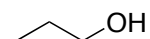
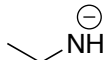
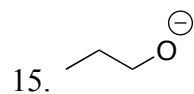
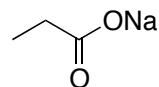
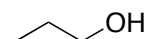
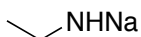
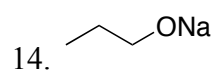
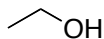
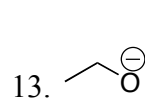
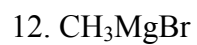
**A. Identify each chemical as either an “acid” or a “base” in the following reactions, and identify “conjugate” relationships.**

-You should have one acid and one base on each side

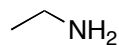
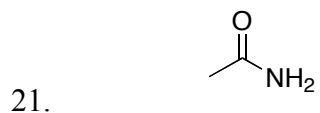
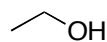
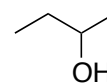
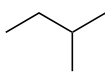
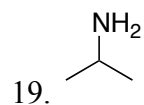
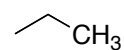
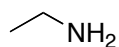
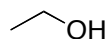
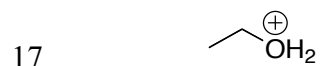
-You should have two conjugate pairs

**B. Choose the More Basic for Each of the Following Pairs (Single Variable). You can use stability to decide.**

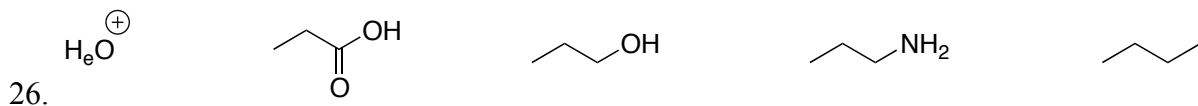
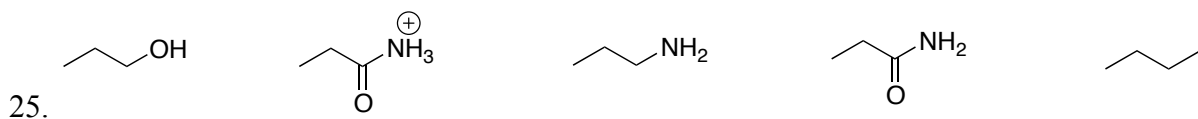
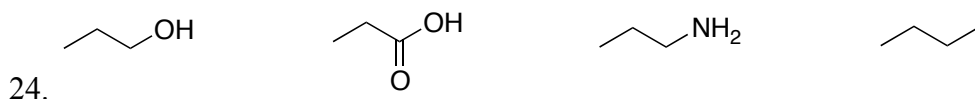
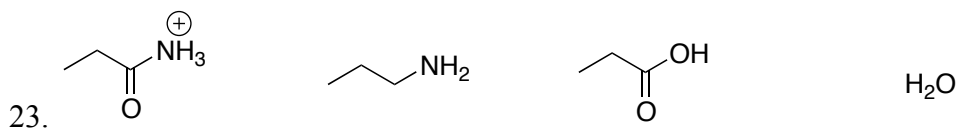
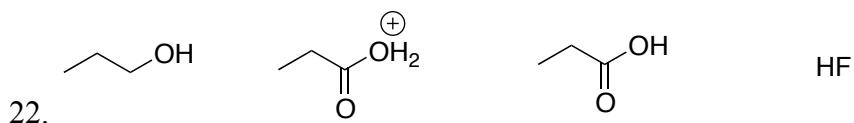
C. Rank the basicity of the following sets: Multiple Variable Problems



D. Choose the More Acidic for Each of the Following Pairs: Single Variable Problems



E. Rank the acidity of the following sets: Multiple Variable Problems



F. Draw arrow to show whether equilibrium favors products or reactants. (Why?)



G. For the following acid-base reaction,

a. put a box around the weakest base in the reaction

b. put a circle around the weakest acid

c. draw an arrow to show whether the equilibrium goes to the right or left. (4pt)

