Acid - Base problems

$$NH_{4}^{\oplus}$$
 + $RCH_{2}O^{\ominus}$ \longrightarrow NH_{3} + $RCH_{2}OH$
 $ArOH$ + $ArSO_{3}^{\ominus}$ \longrightarrow ArO^{\ominus} + $ArSO_{3}H$
 $H_{2}S$ + $H_{2}O$ \longrightarrow HS^{\ominus} + $H_{3}O^{\oplus}$
 $H_{2}O$ + $H-C\equiv C^{\ominus}$ \longrightarrow HO^{\ominus} + $H-C\equiv C-H$
 CH_{4} + F^{\ominus} \longrightarrow CH_{3}^{\ominus} + HF
 $R-O-H$ + NH_{4}^{\oplus} \longrightarrow $R-O-H$ + NH_{4}^{\oplus}

For the above problems, you should be able to use the pKa chart on the web site to determine in which direction the reaction prefers to proceed. You should also use the knowledge gained from lecture to draw the arrows for the acid/base reactions in each direction.