1. (10 points) Draw an arrow-pushing mechanism.

$$\frac{\text{KOH}}{\text{CH}_3\text{OH}}$$

2. ((10 points) Draw an arrow-pushing mechanism.

$$\begin{array}{c} O \\ \hline \\ O \end{array} \begin{array}{c} H^{+} \\ \hline \\ -H_{2}O \end{array}$$

3. (10 points) Draw an arrow-pushing mechanism, and indicate the correct product.