WORKSHEET VI

1. Name the following compounds

2. Draw the product(s) of the following reactions

A Ph
$$\begin{array}{c} 1. O_3 \\ \hline 2. (CH_3)_2S \end{array} \end{array}$$

$$\begin{array}{c} D \\ \hline 2. H_2O_2 / NaOH \end{array}$$

$$\begin{array}{c} D \\ \hline 2. H_3O^+ \end{array}$$

$$\begin{array}{c} LiAlH(O-t-Bu)_3 \\ \hline E \\ \hline C \\ \hline \end{array}$$

$$\begin{array}{c} C \\ \hline \end{array}$$

$$\begin{array}{c} C \\ \hline \end{array}$$

$$\begin{array}{c} D \\ \hline \end{array}$$

$$\begin{array}{c} C \\ \hline \end{array}$$

$$\begin{array}{c|c}
G & O \\
\hline
 & H_2NNH_2 \\
\hline
 & H_3O^+
\end{array}$$

$$\begin{array}{c|c}
 & O \\
\hline
 & 1. \text{ LiAlH}_4 \\
\hline
 & 2. \text{ H}_3\text{O}^+
\end{array}$$

$$\begin{array}{c|c} H & O \\ \hline & H & H_2N-OH \\ \hline & H_3O^+ \end{array}$$

3. How would you achieve the following transformation?