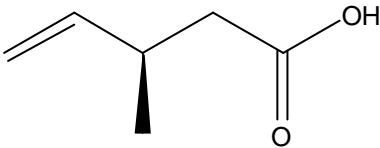
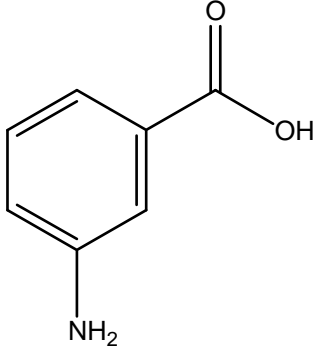
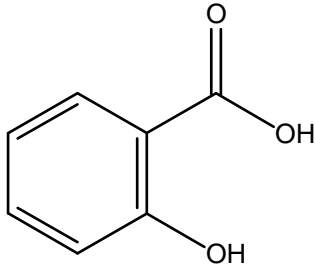
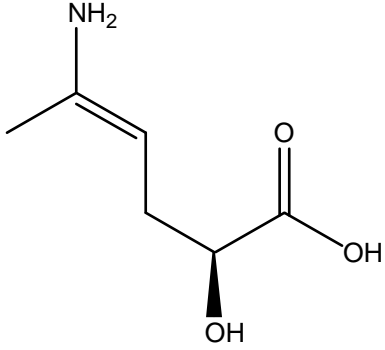
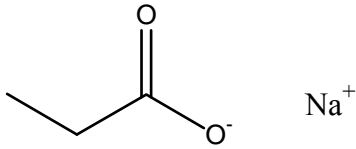


Chapter 20 Worksheet

1. Name the following compounds:

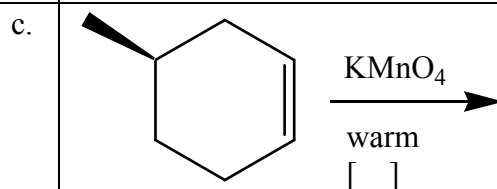
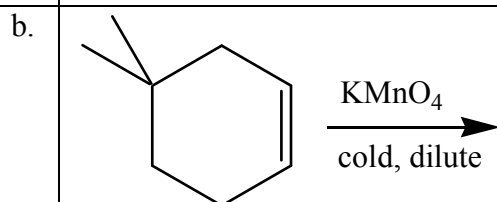
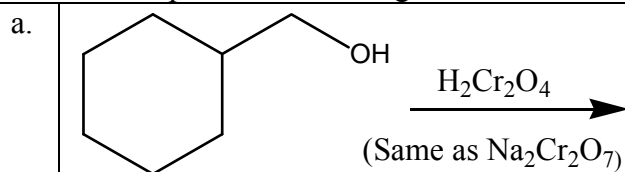
a. 	b. 
c. 	d. 
e. 	

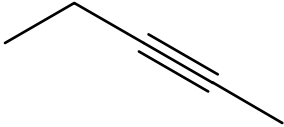
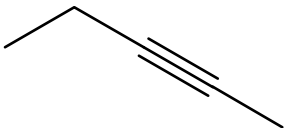
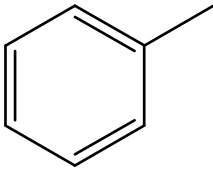
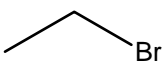
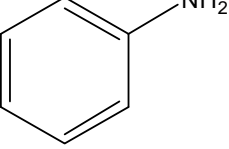
2. Draw the following compounds:

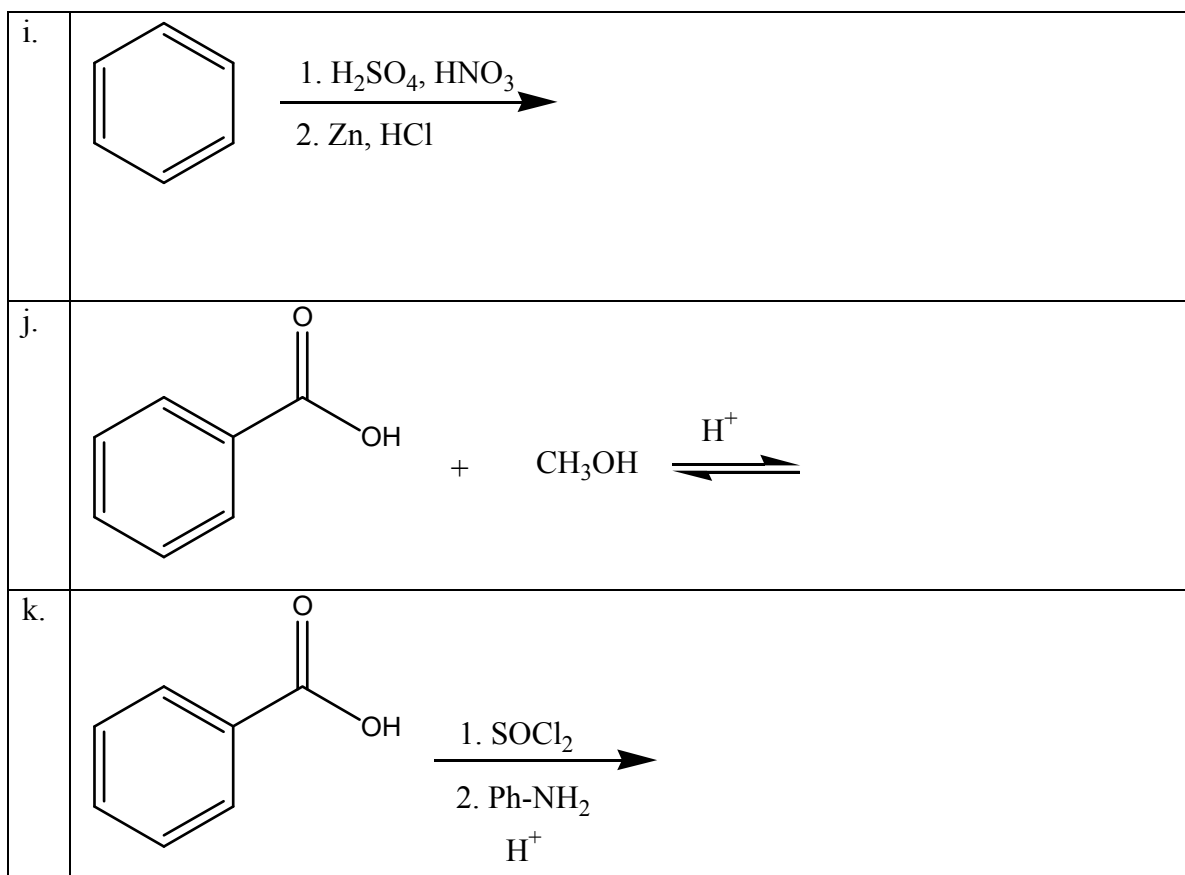
a. α -hydroxyglutaric acid

b. magnesium hexanoate

3. Complete the following reactions:



d.	 $\xrightarrow[2. \text{H}_2\text{O}]{1. \text{O}_3}$
e.	 $\xrightarrow[\text{heat}]{[\text{KMnO}_4]}$
f.	 $\xrightarrow[\text{heat}]{\text{H}_2\text{SO}_4, \text{Na}_2\text{Cr}_2\text{O}_7}$
g.	 $\xrightarrow[3. \text{H}_3\text{O}^+]{1. \text{Mg, Et}_2\text{O}, 2. \text{CO}_2}$
h.	 $\xrightarrow[\text{Heat}]{1. \text{NaNO}_2, \text{HCl}, 2. \text{CuCN}, 3. \text{H}_3\text{O}^+, \text{H}_2\text{O}}$



4. Complete the mechanism for the following reactions: Be sure to show each step carefully using curved arrows to illustrate the movement of electrons.

