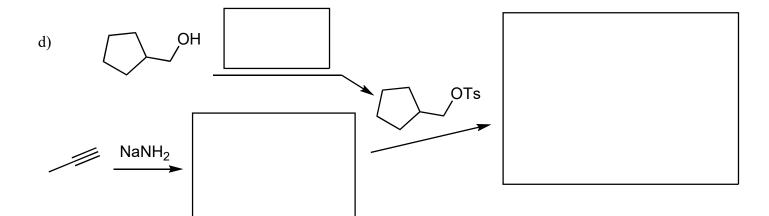
2. (33 pts) Predict the **major product(s)** expected (or provide the missing reactant) for each of the following reactions. Remember to indicate stereochemistry, when appropriate. **Unless otherwise noted, you may assume that each reagent is available in excess.** If no reaction is expected, write NR.

a)
$$HO$$
 OCH_3 $Na_2Cr_2O_7$ H_2SO_4

b)
$$Ph^{\text{III}} \xrightarrow{O} \frac{CH_3OH}{H_2SO_4}$$



f)
$$\frac{1) \text{ PhCH}_2 \text{MgBr}}{2) \text{ H}_3 \text{O}^+}$$