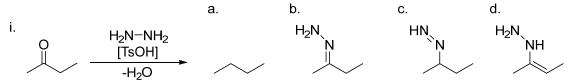
1. Circle the major product for the following reactions. (2 points)



ii. a. b. c. o d. HO O OH
$$\underbrace{[TsOH]}_{-H_2O}$$

2. Provide the major product for the following reactions. (2 points)

i. O
$$\frac{\text{MeNH}_2}{[\text{TsOH}]}$$
ii. O $\frac{\text{Me}_2\text{NH}}{[\text{TsOH}]}$
 $\frac{[\text{TsOH}]}{-\text{H}_2\text{O}}$

3. Provide a mechanism to account for each of the following reaction. (6 points)