1. (8-63) Predict the product formed when 1-methylcyclohexene reacts with BD₃, THF, followed by basic hydrogen peroxide. Include relevant stereochemistry. (3 points).

2. Draw the product of the following reaction: (2 points)

3. Provide the reagents necessary for the translation below. (3 points)

4. Complete the following reaction by indicating the necessary starting substrate. (2 points)