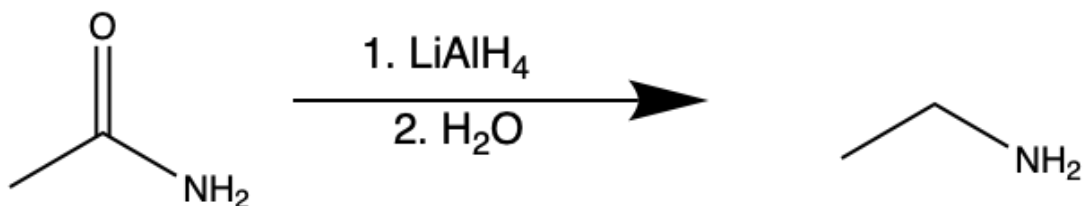
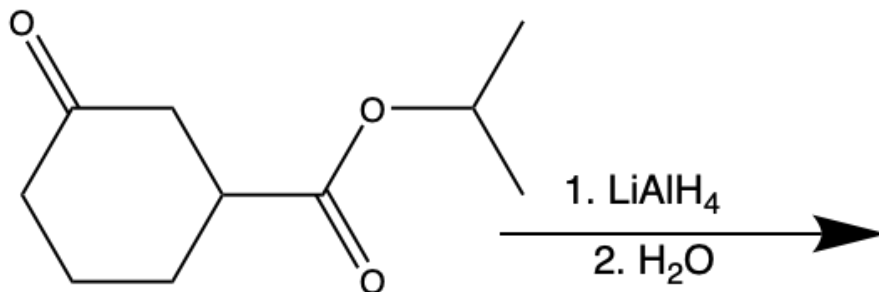


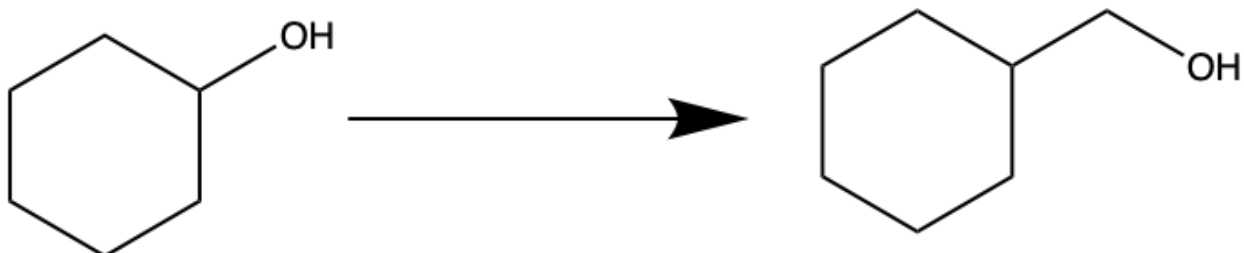
1. Draw the mechanism for the following reaction



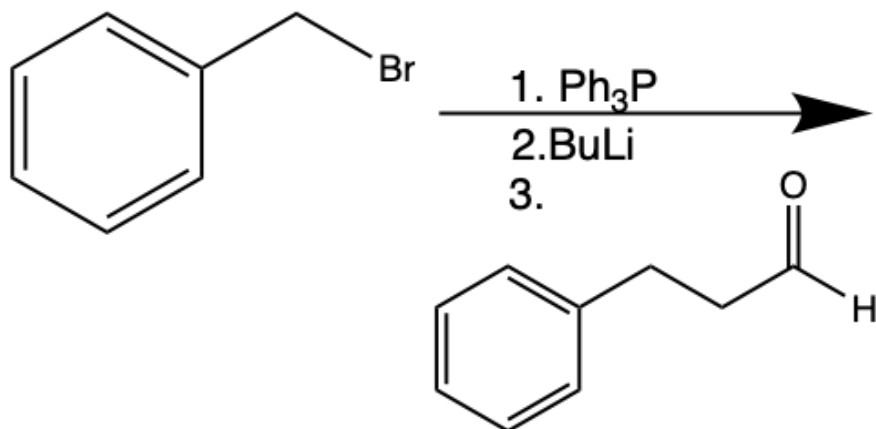
2. Determine the product with the provided starting material and reagents



3. Determine what reagents must be used to produce the product



4. Determine the product with the given reagents



5. Identify the structure of the compound (molecular formula C₉H₁₀O) from the ¹H NMR & ¹³C NMR

