## **CONCEPT: ORGANOMETALLICS**

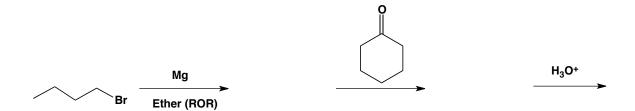
## 1. Nucleophilic Addition on Ketones and Aldehydes

$$(R)$$
  $M$   $R_1$   $R_2$ 

**EXAMPLE:** Show the mechanism and predict the product for the following reaction.

<u>PRACTICE:</u> Provide the major product for the following reaction.

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$$\begin{array}{c}
O \\
\hline
1.CH_3MgBr \\
2.H_3O^+
\end{array}$$

<u>PRACTICE:</u> Provide the major product for the following reaction dealing with the Grignard reagent.