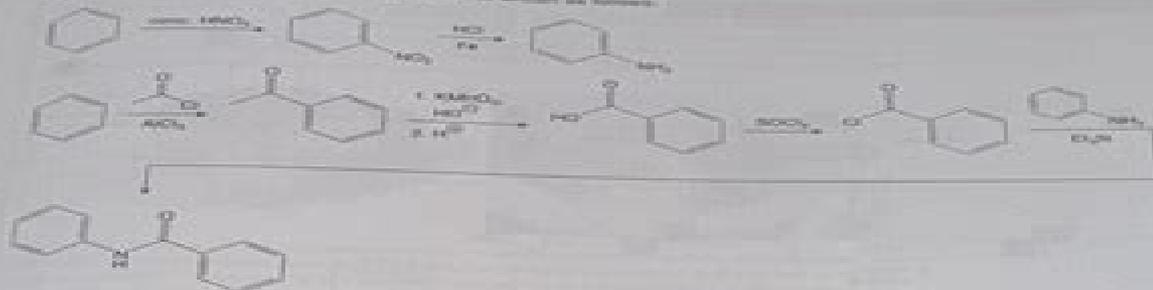
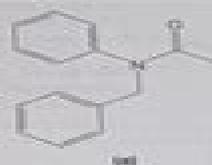


The synthesis in the forward direction could then be written as follows:



**problem 22.21** Show how to synthesize each of these compounds, using benzene as the only aromatic starting compound.



### 22.9c The Benzenediazonium Ion and the Sandmeyer Reactions

Benzenediazonium is produced when aniline is treated with sodium nitrite ( $\text{NaNO}_2$ ) under acidic conditions, followed by cuprous bromide ( $\text{CuBr}$ ) (Equation 22-31).



Overall, Br has replaced  $\text{NH}_2$ , but the mechanism is not a simple electrophilic aromatic substitution. As shown in Equation 22-32, the first of the two reactions is a multistep mechanism, which ultimately produces a benzenediazonium ion.

# Organic Chemistry Principles And Mechanisms

**Joel Karty**



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