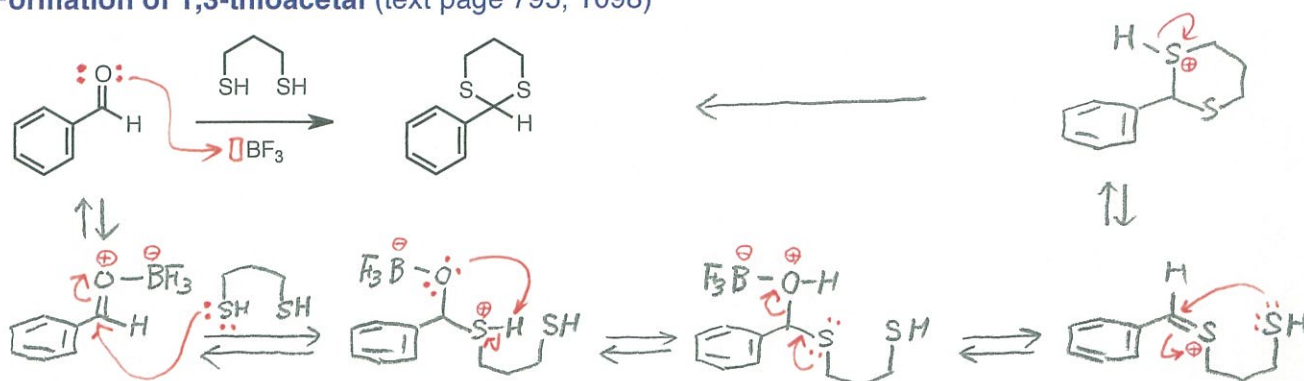


## G-30 Bioorganic Chemistry 2018 Problems -3

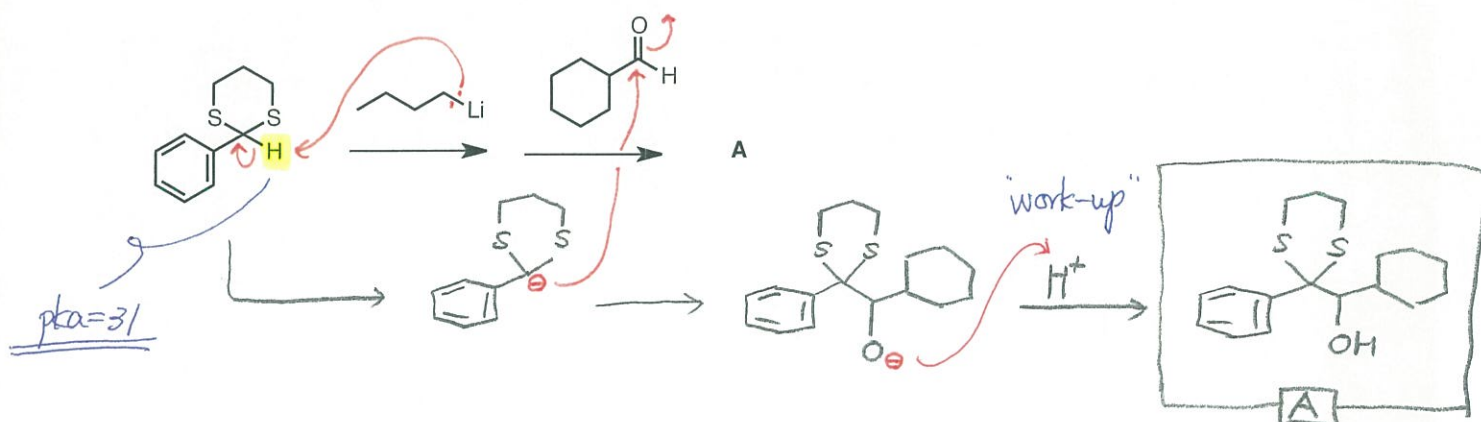
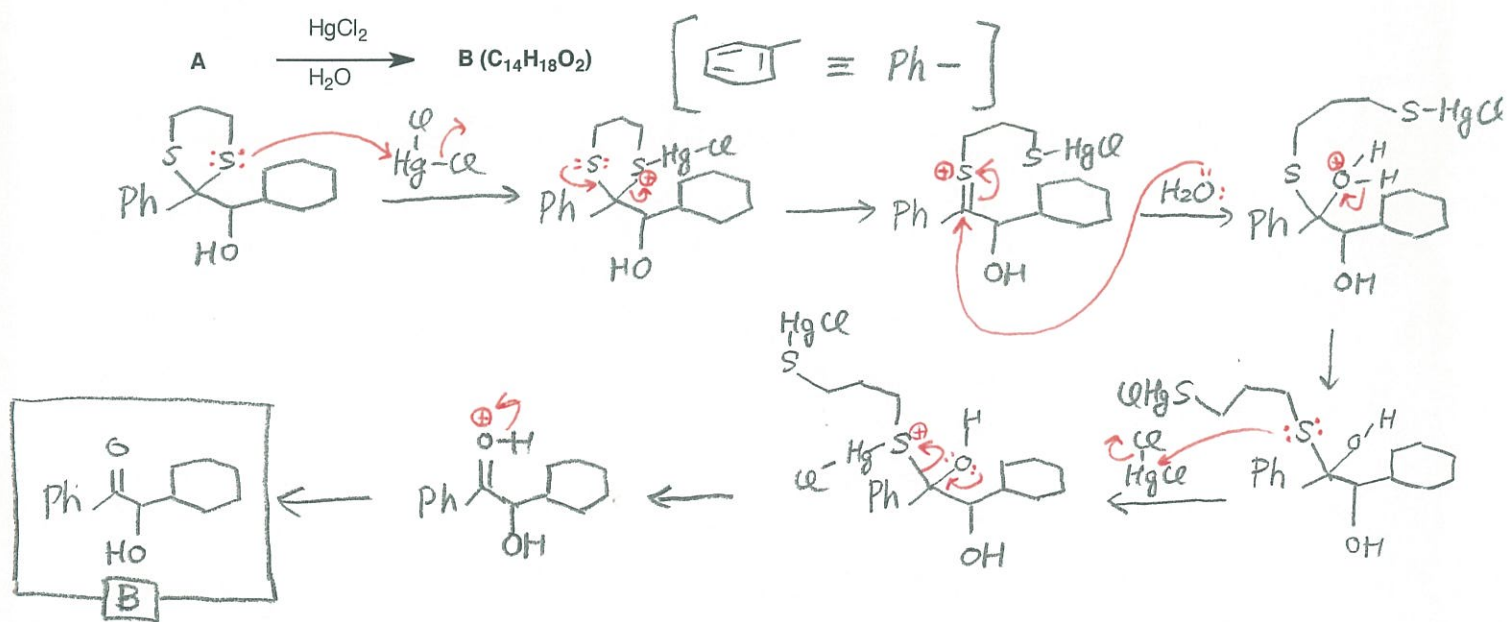
## Examples of solutions

1. Write the mechanisms and the products of the following reactions.

(a) Formation of 1,3-thioacetal (text page 795, 1098)



(b) 1,3-dithiane stabilizes anion (text page 1098)

(c) dithioacetal is hydrolyzed with  $\text{Hg}^{2+}$  salt (text page 796, 1099)

## 2. Write the mechanisms of the following reaction.

Thiazolium ion is an equivalent to acyl anion (text page 1099-)

