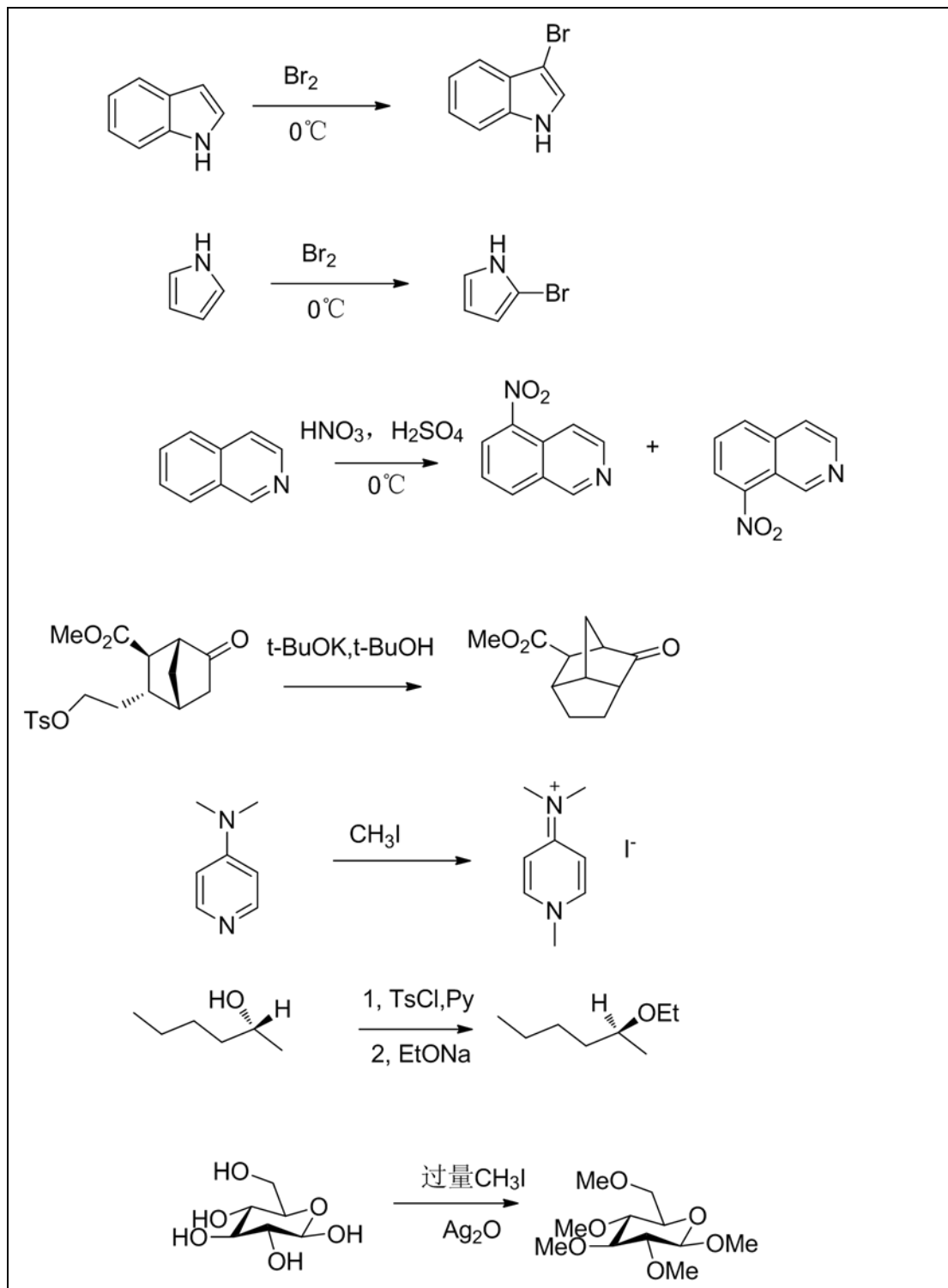
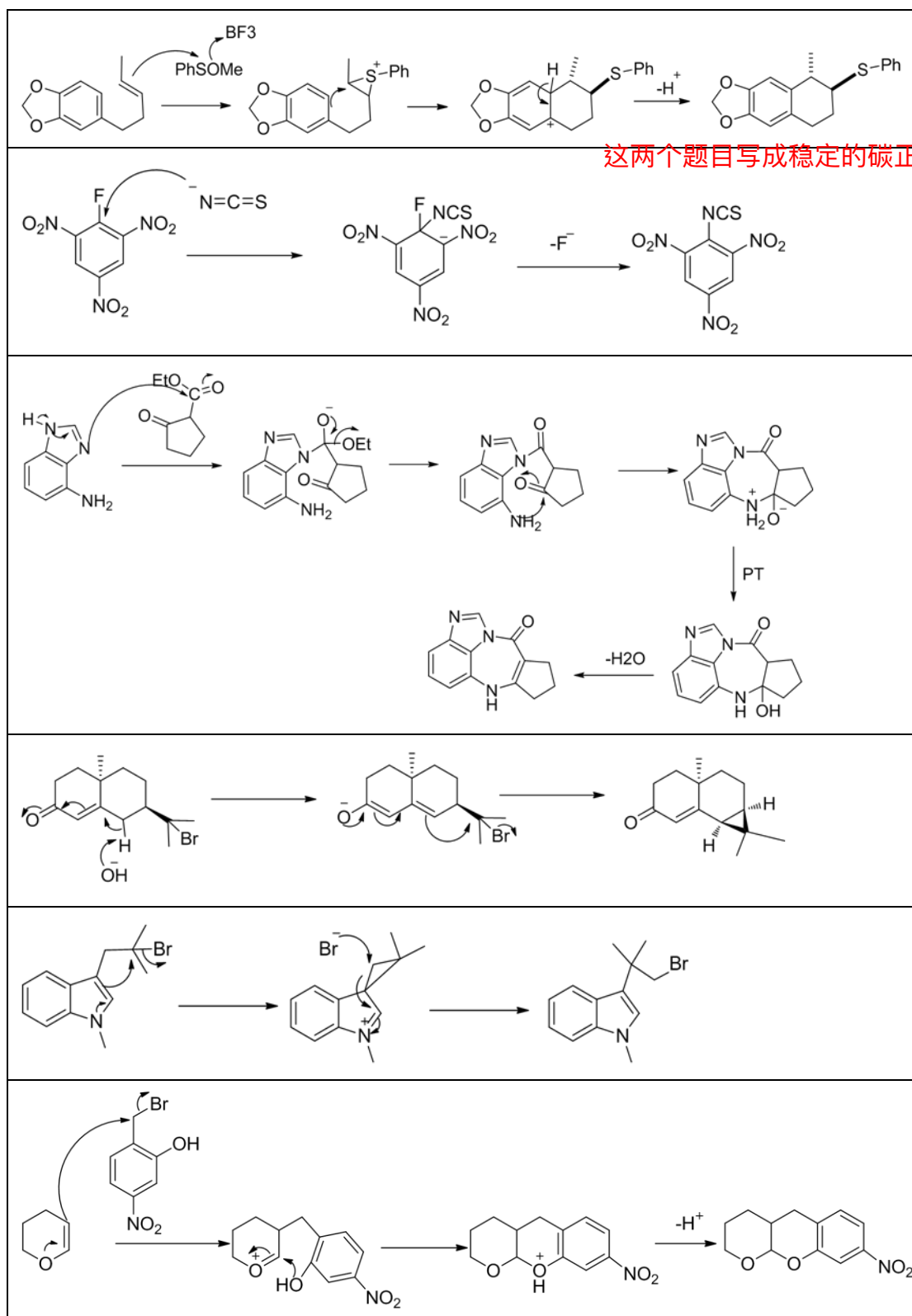


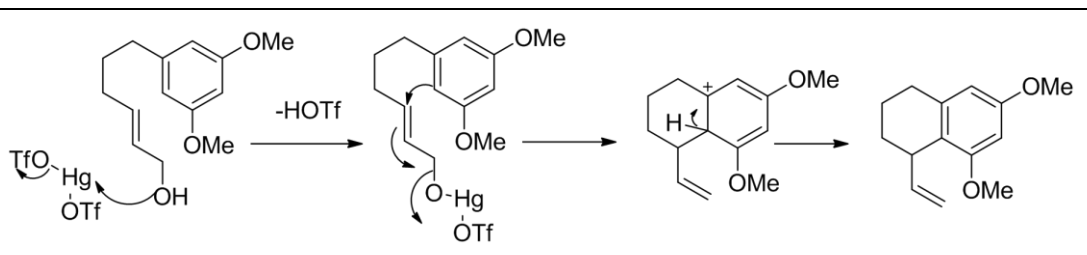
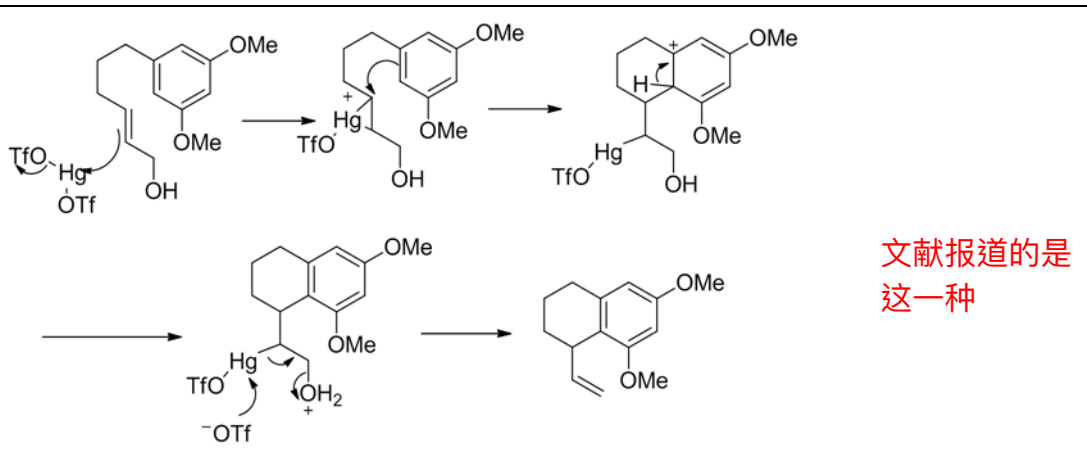
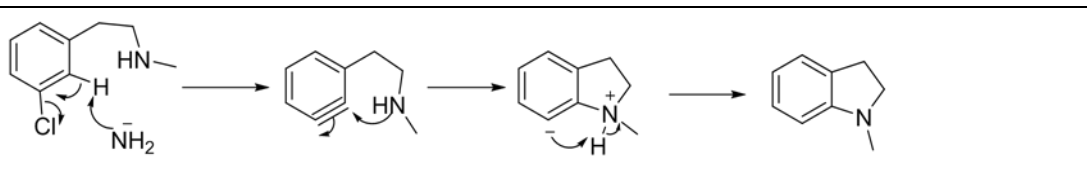
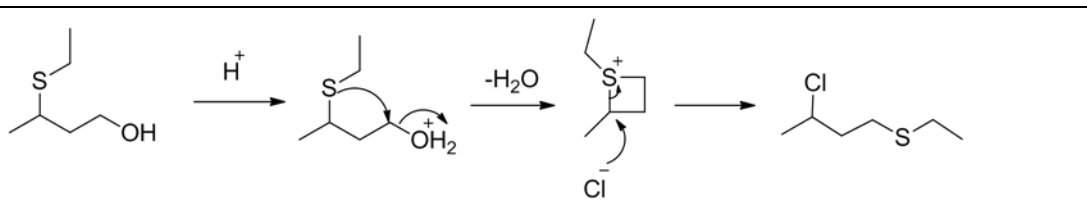
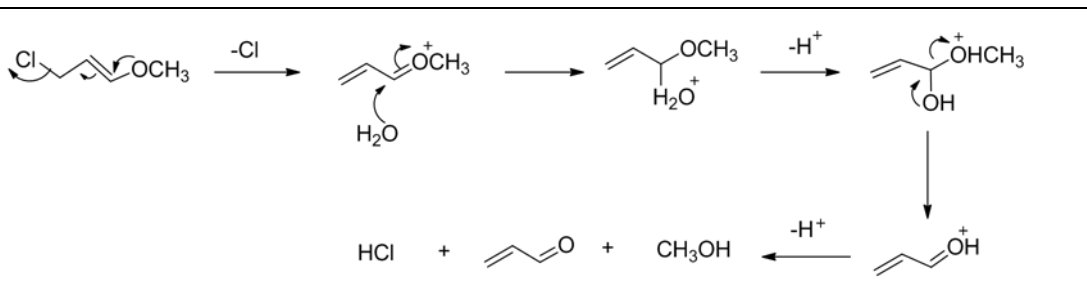
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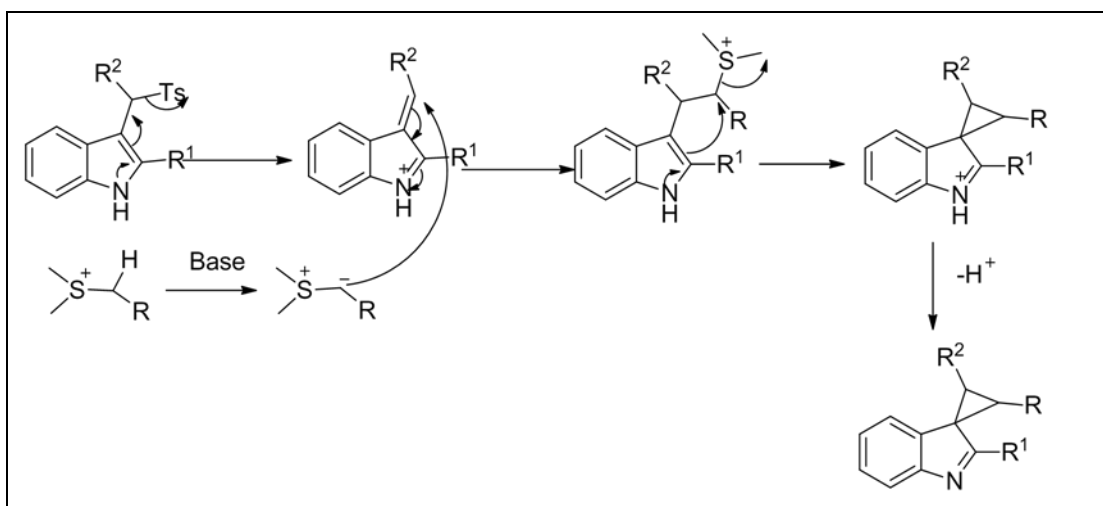
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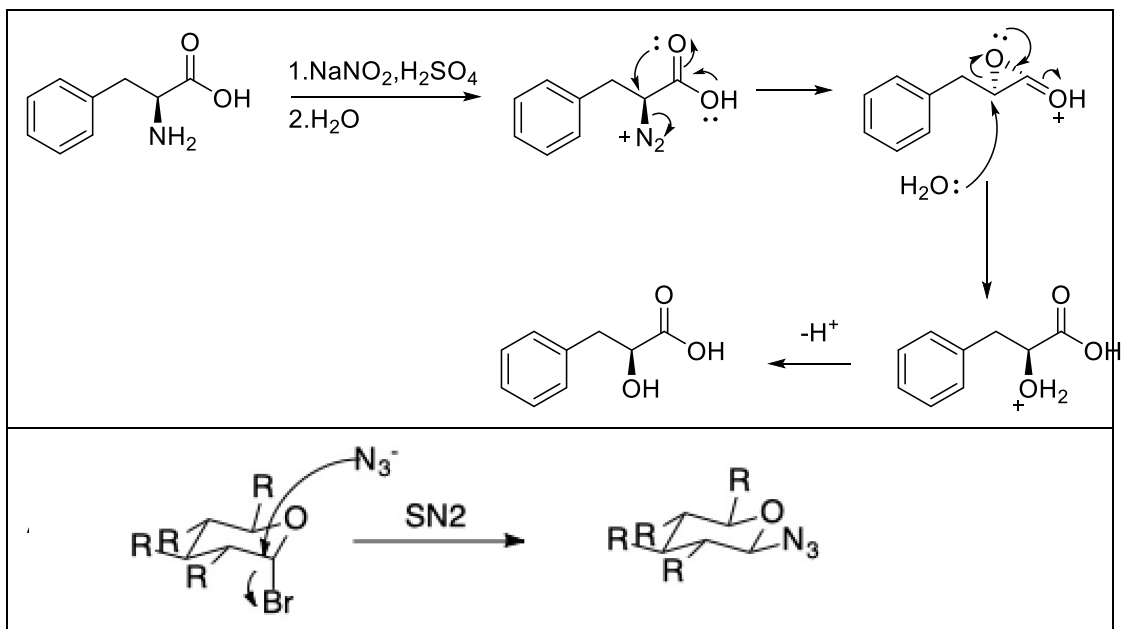
3.5





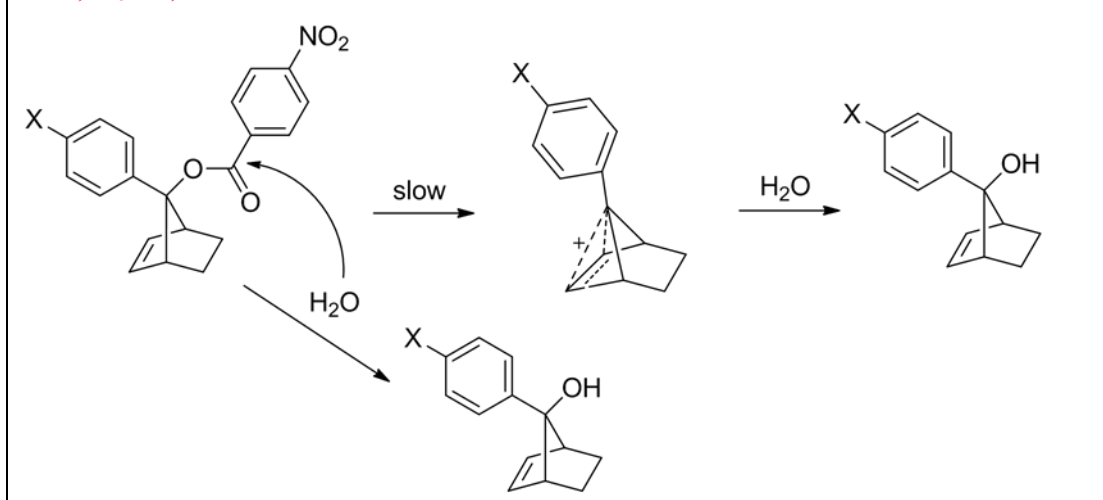


3.6



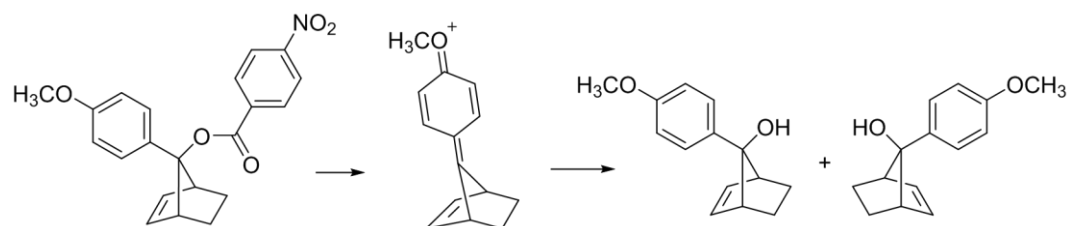
3.7

$X=H, CF_3$ 时, 双键参与:



吸电子基团时原位生成碳正离子较为困难，采取进攻羰基的方式水解，构型保持。吸电子基团时原位生成碳正离子较为困难，采取进攻羰基的方式水解，构型保持。

$X=\text{OCH}_3$ 或 $(\text{CH}_3)_2\text{N}$ 时，富电子型的芳烃参与反应：



供电基团时，可以生成碳正离子，手型消失。