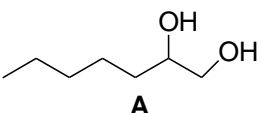
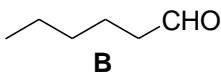

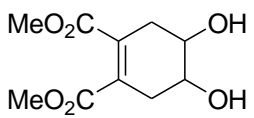
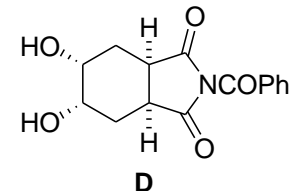
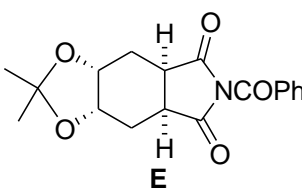
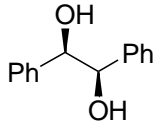
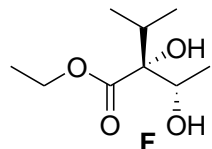
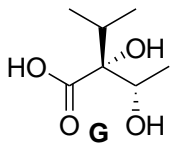
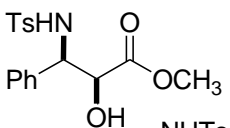
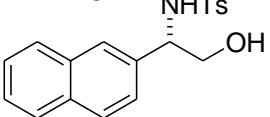
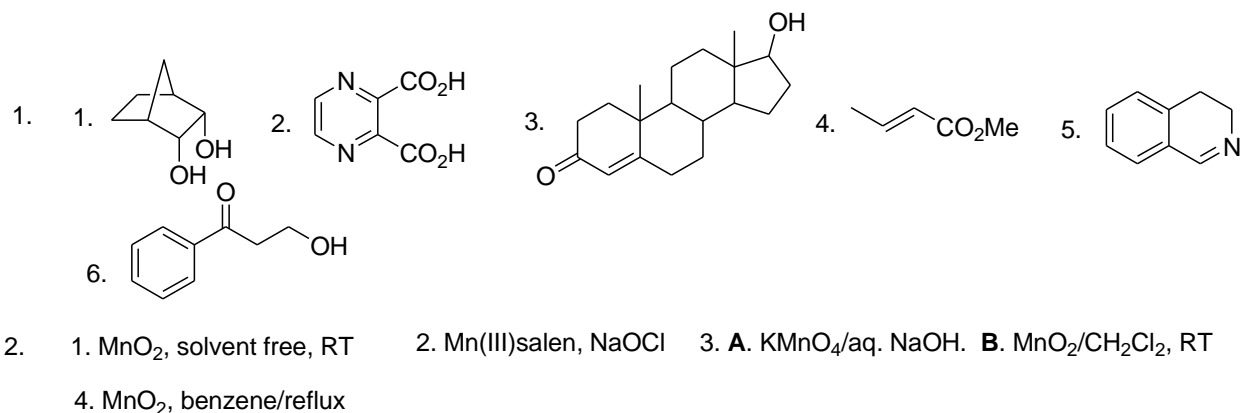


## Solutions

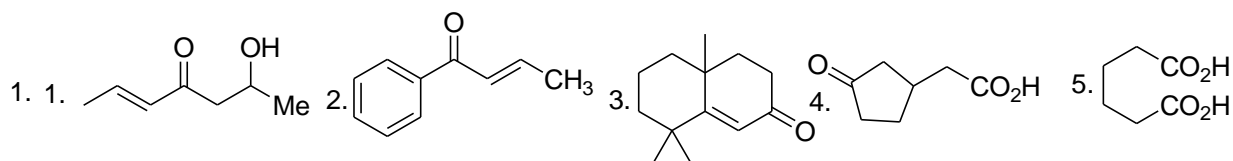
### Lecture 1

1.  **A**       **B**       **C**
2. 
3.  **D**       **E**
4. 
5.  **F**       **G**
6. 
7. 

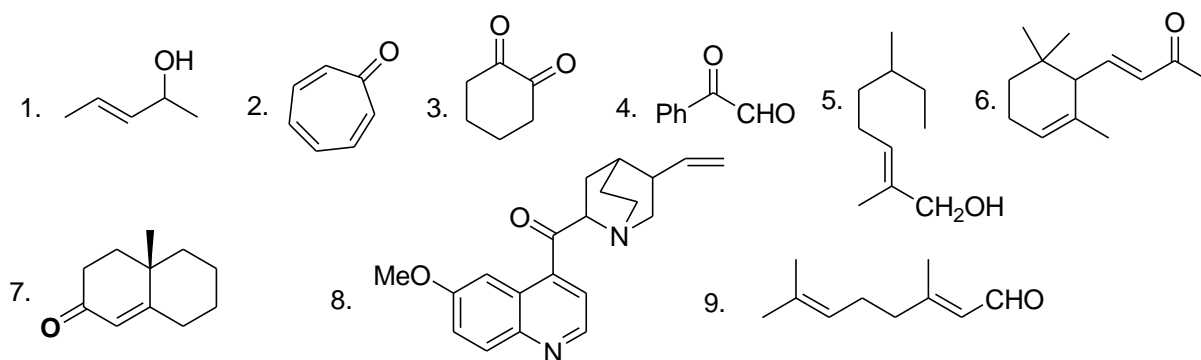
## Lecture 2



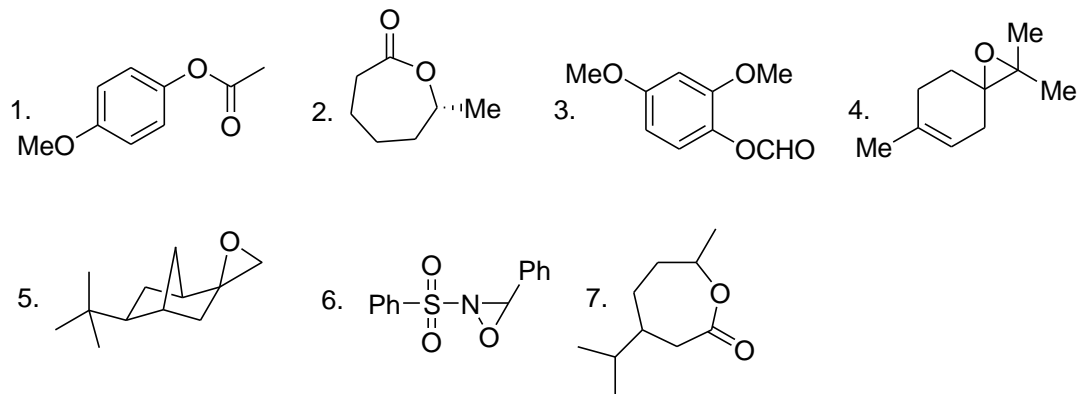
## Lecture 3



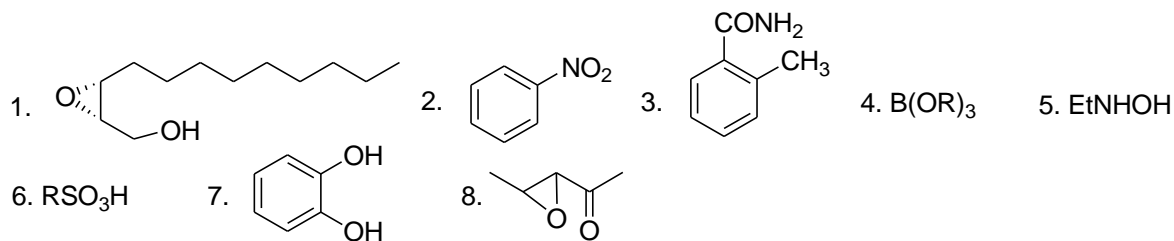
## Lecture 4



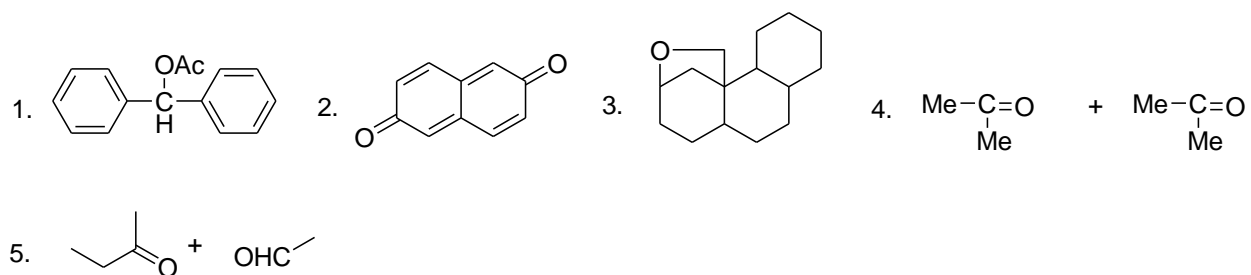
## Lecture 5



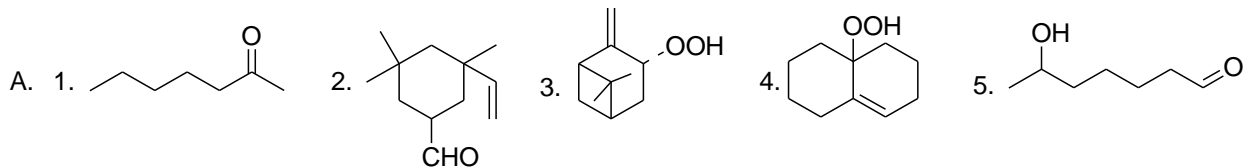
## Lecture 6



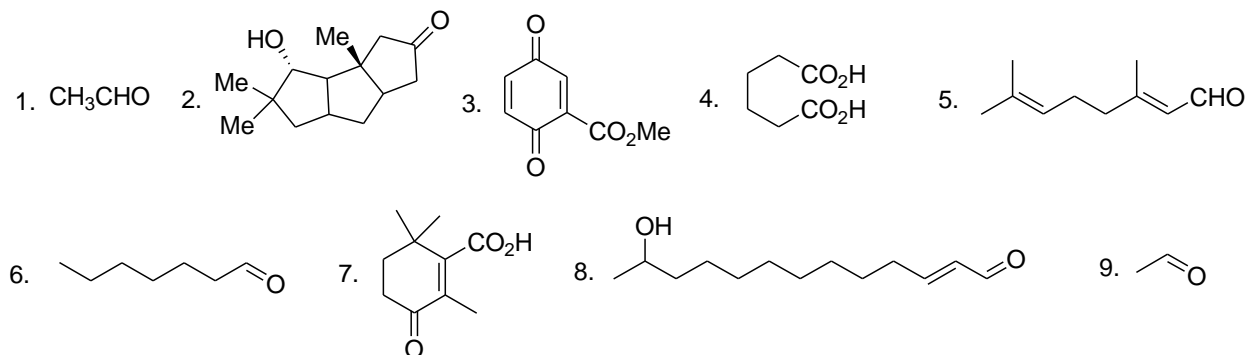
## Lecture 7



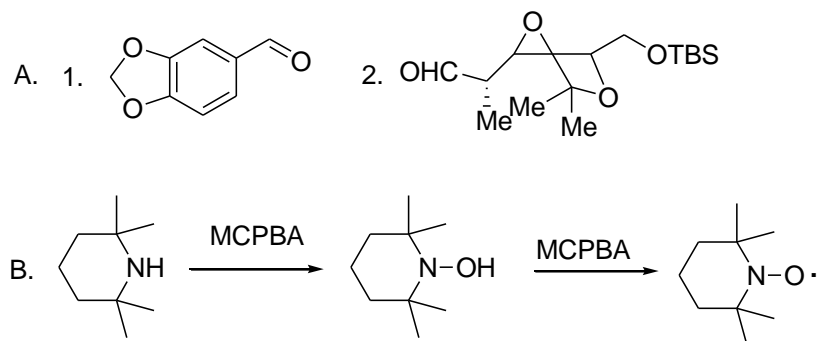
## Lecture 8



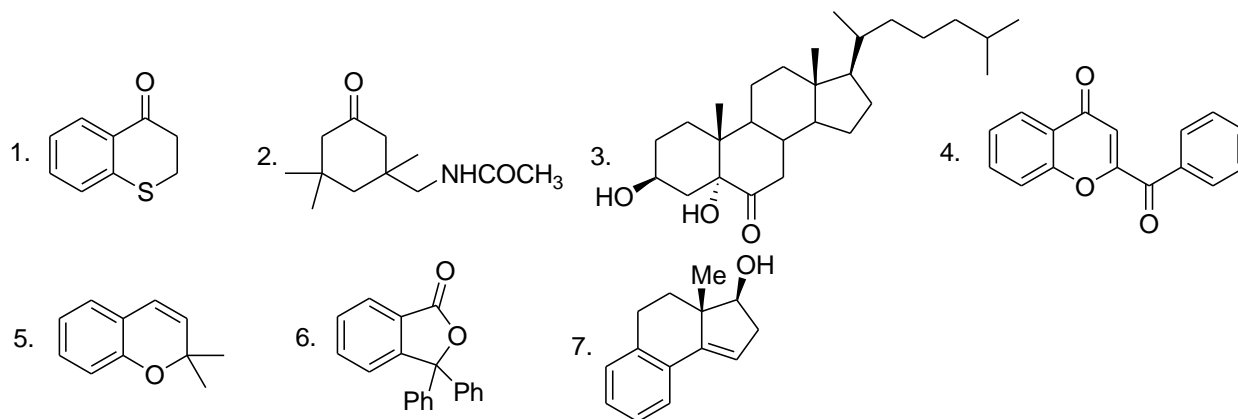
## Lecture 9



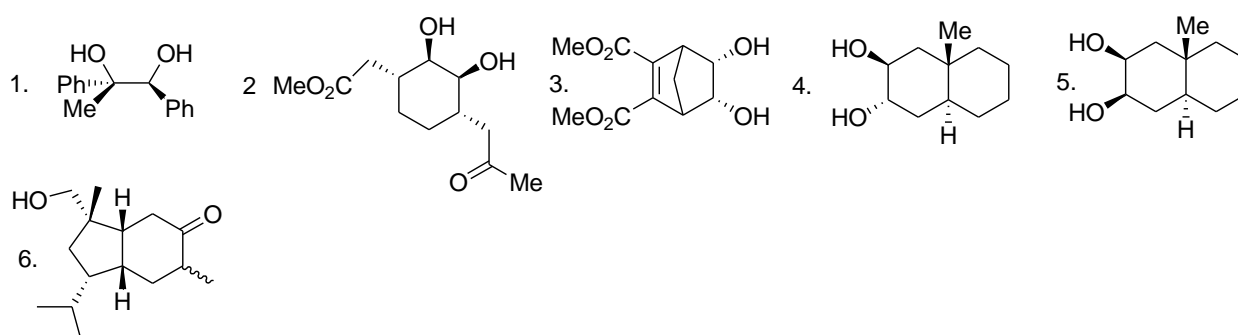
## Lecture 10



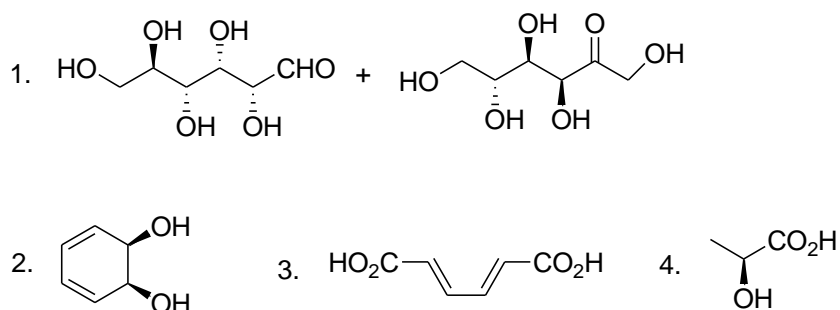
## Lecture 11



## Lecture 12



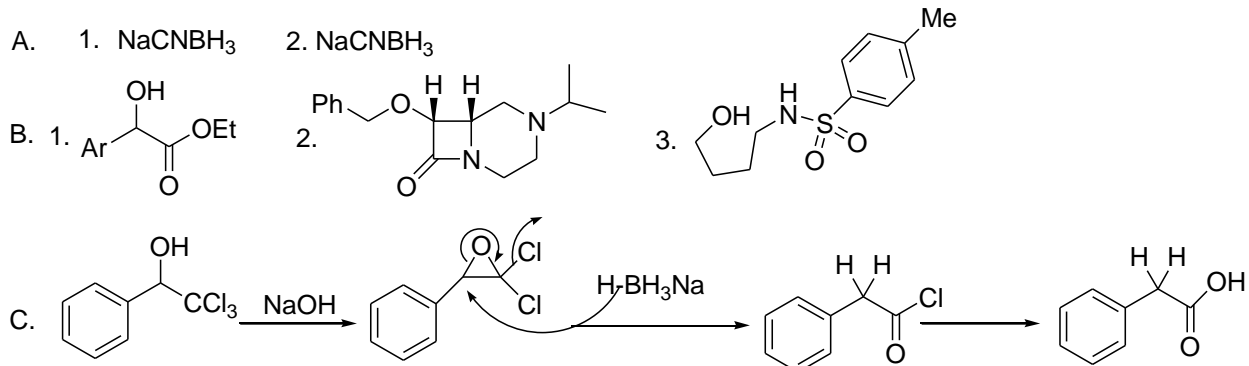
## Lecture 13



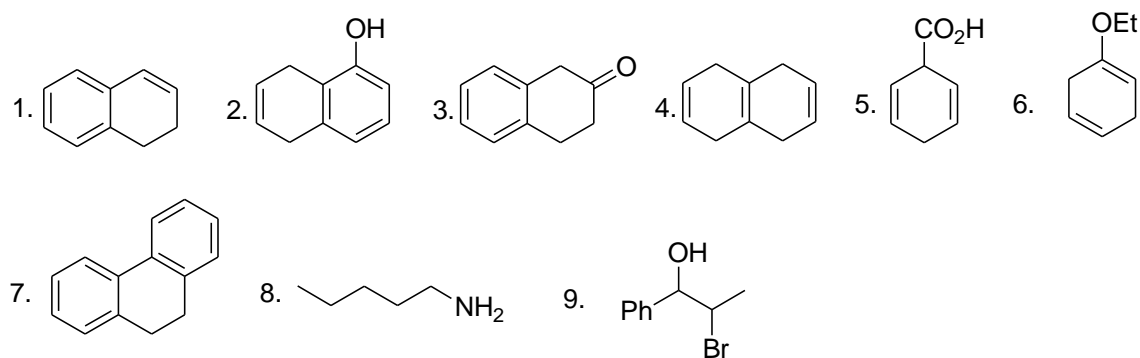
## Lecture 14

1. LAH (inverse addition)
2. LAH
3.  $\text{LiAlH}(\text{OEt})_3$
4.  $\text{LiAlH}(\text{OEt})_3$
5. DIBAL, Toluene,  $-78^\circ\text{C}$

## Lecture 15



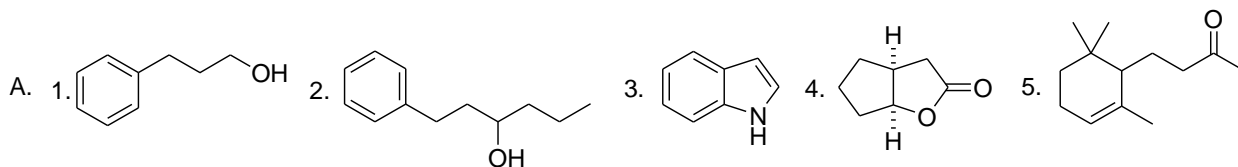
## Lecture 16



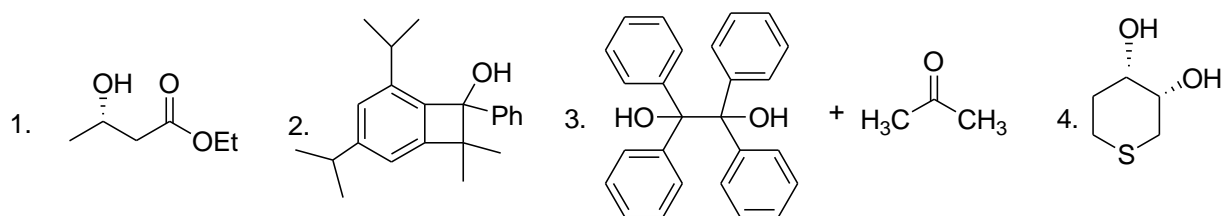
## Lecture 17

1.  $\text{PtO}_2/\text{H}_2$
2.  $\text{Pd}/\text{H}_2$
3.  $\text{PtO}_2/\text{H}_2/\text{AcOH}$ ,
4. Raney  $\text{Ni}/\text{H}_2$ ,
5.  $\text{Pd}/\text{C}/\text{H}_2$
6.  $\text{H}_2$ , Wilkinson Catalyst,  $\text{C}_6\text{H}_6$
7.  $\text{Pd}/\text{CaCO}_3/\text{H}_2$

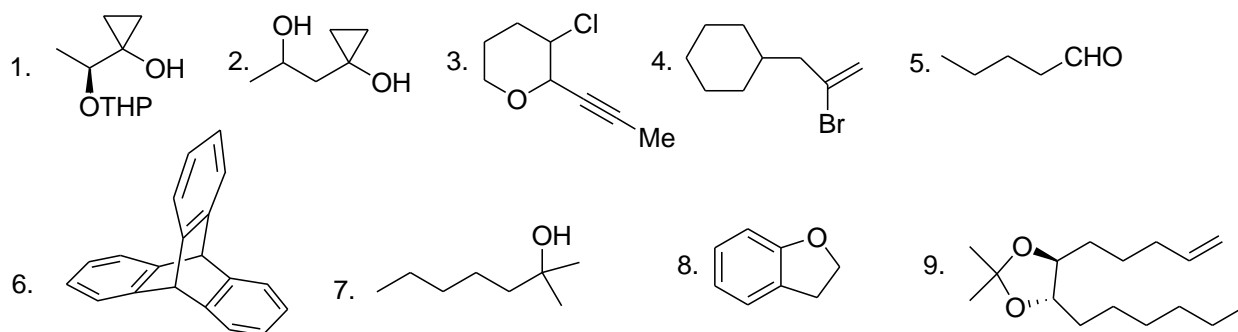
## Lecture 18



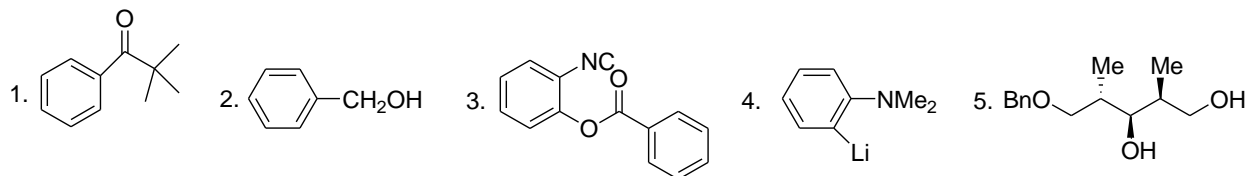
## Lecture 19



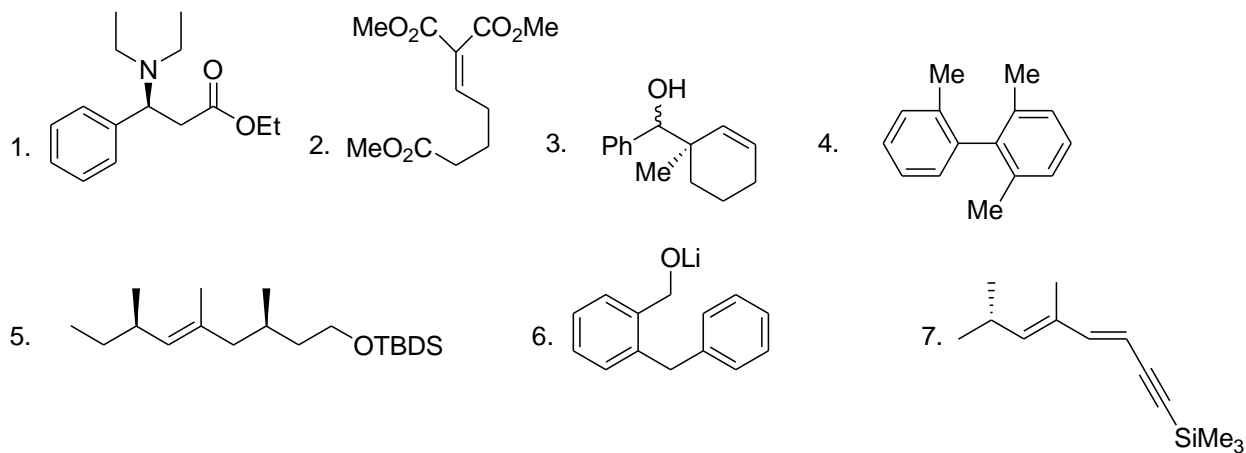
## Lecture 20



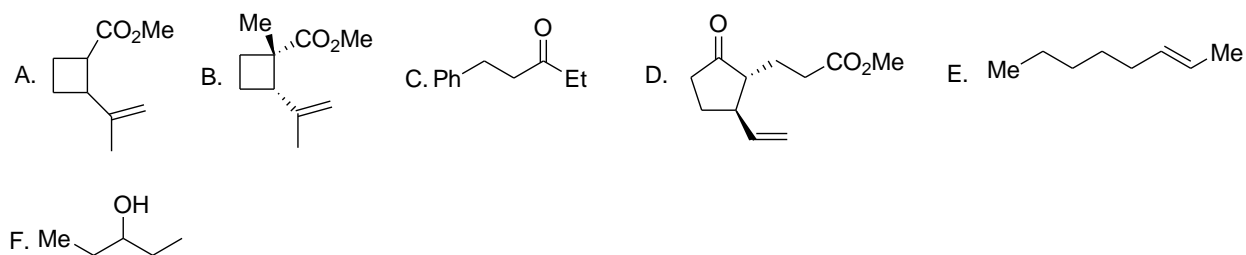
## Lecture 21



## Lecture 22

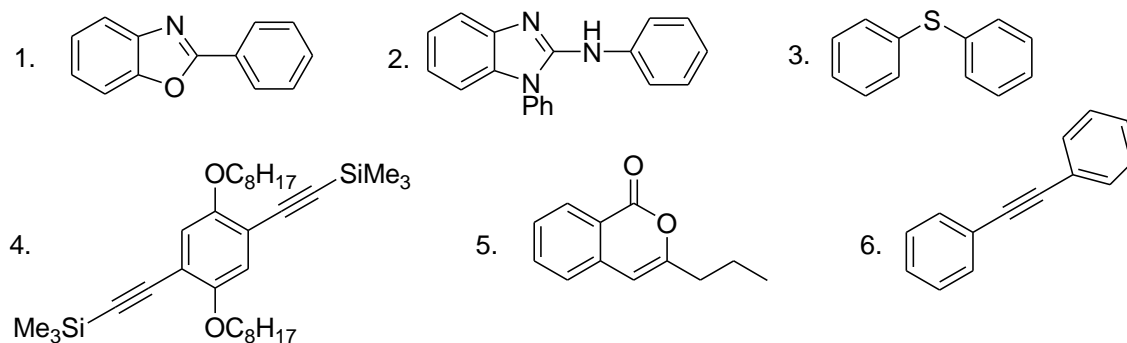


## Lecture 23

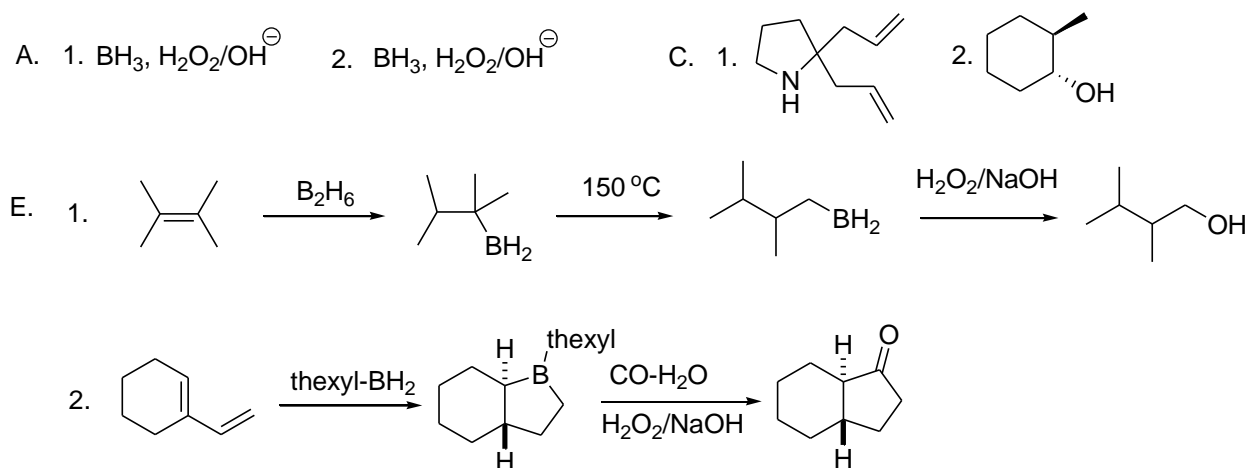




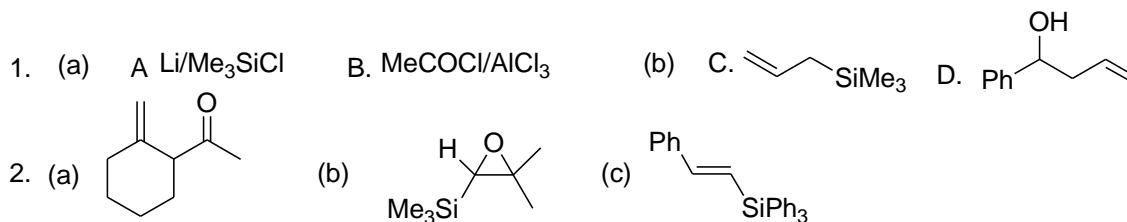
## Lecture 24



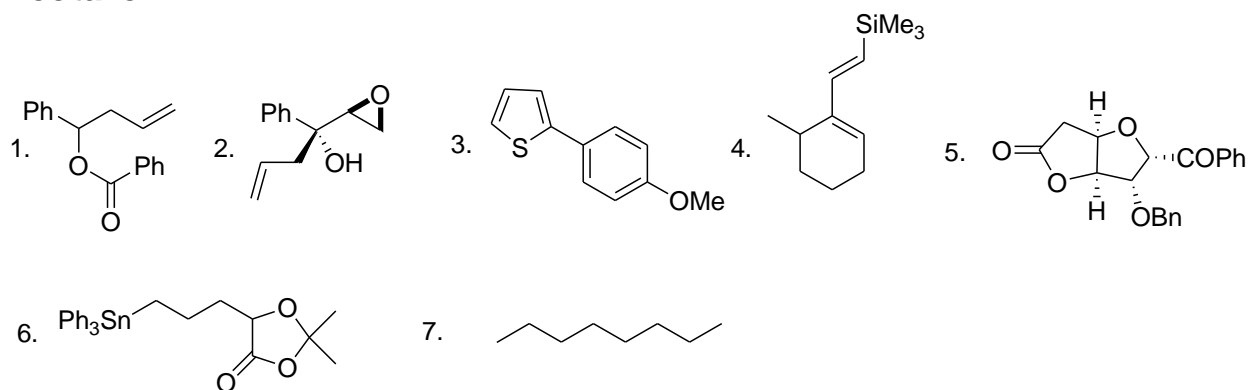
## Lecture 25



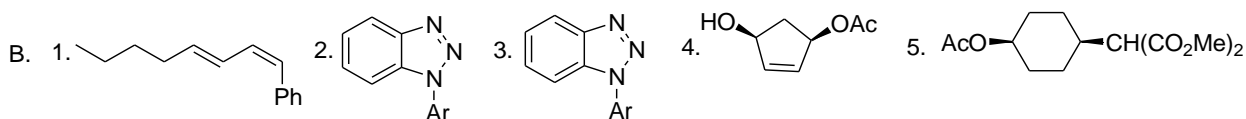
## Lecture 26



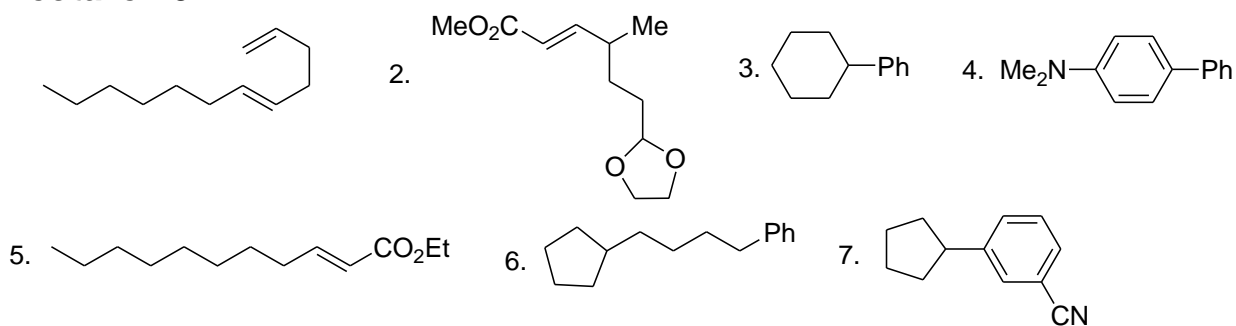
## Lecture 27



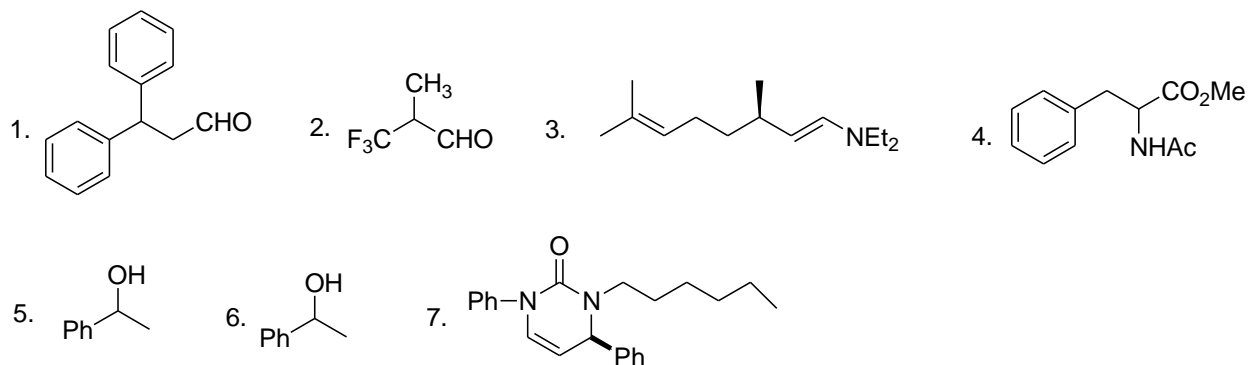
## Lecture 28



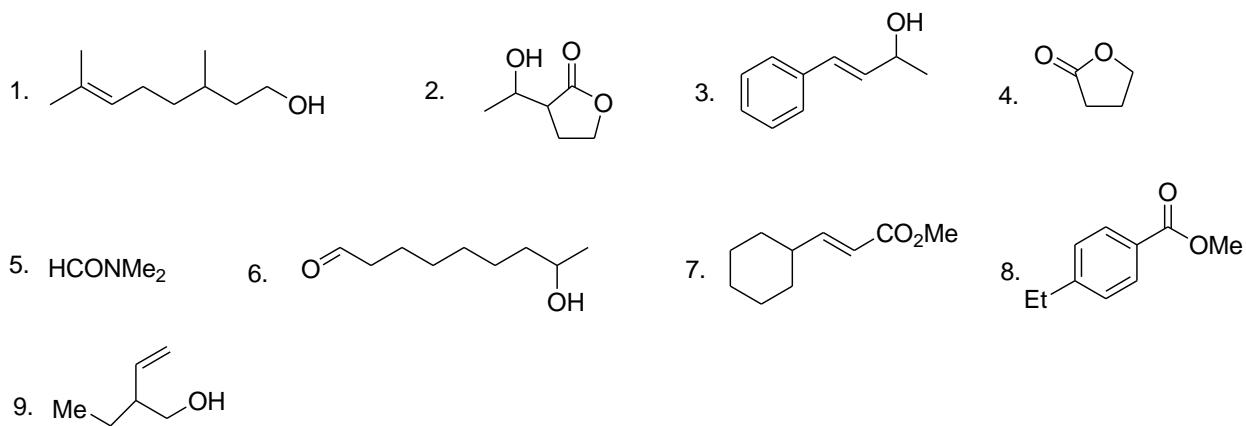
## Lecture 29



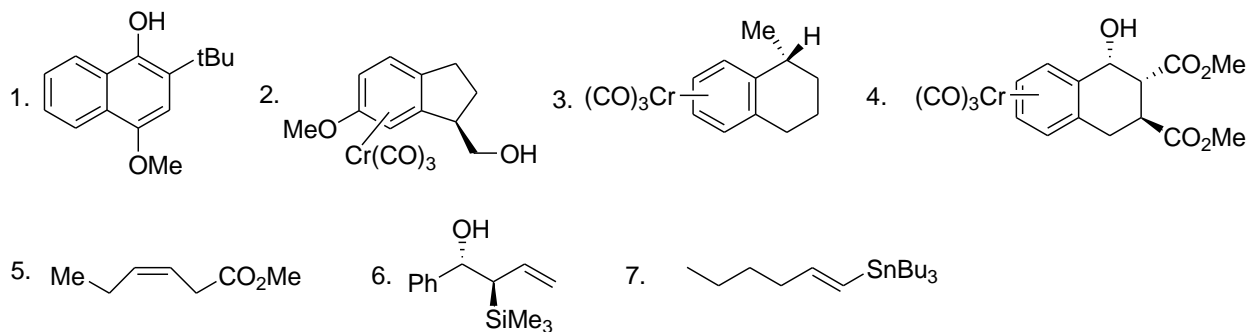
### Lecture 30



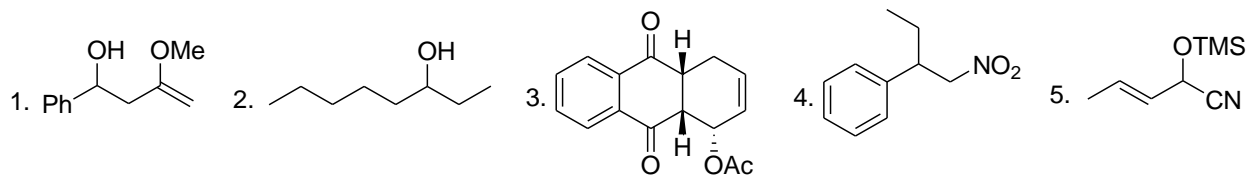
### Lecture 31



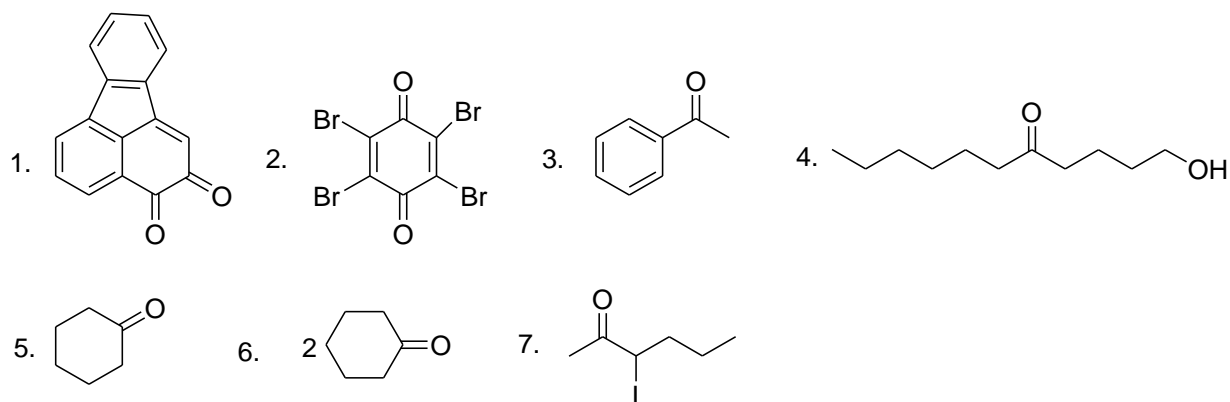
### Lecture 32



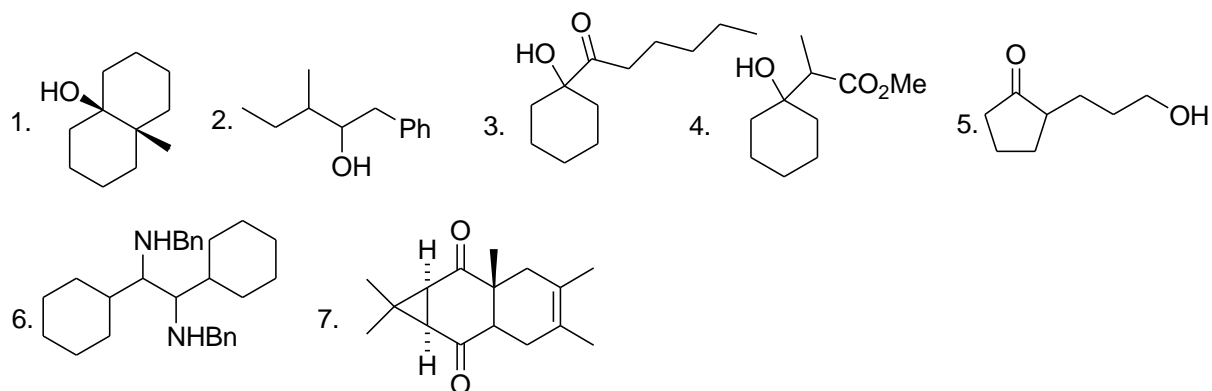
### Lecture 33



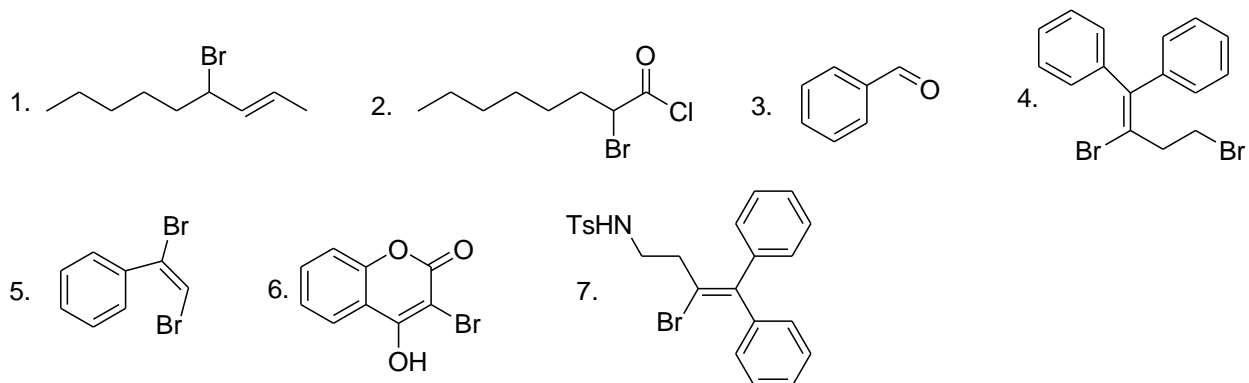
### Lecture 34



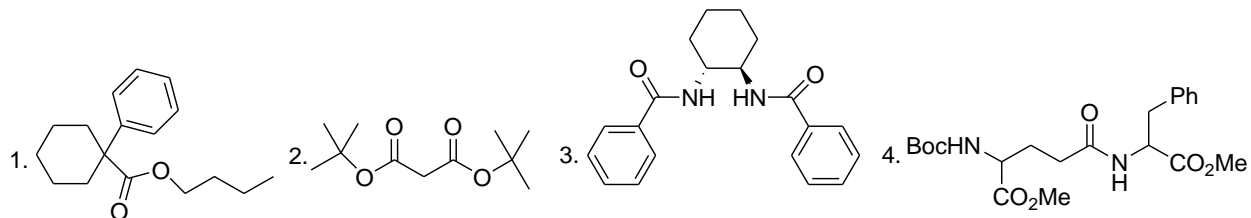
### Lecture 35



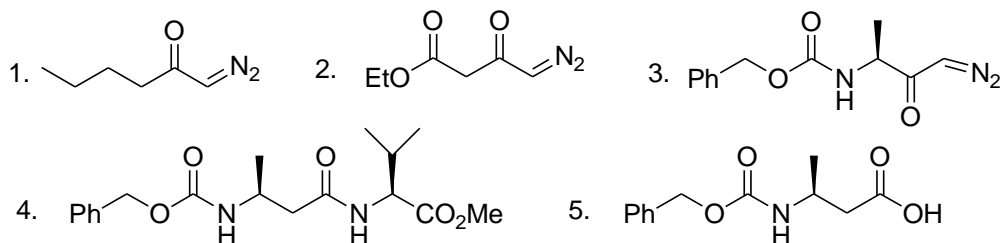
### Lecture 36



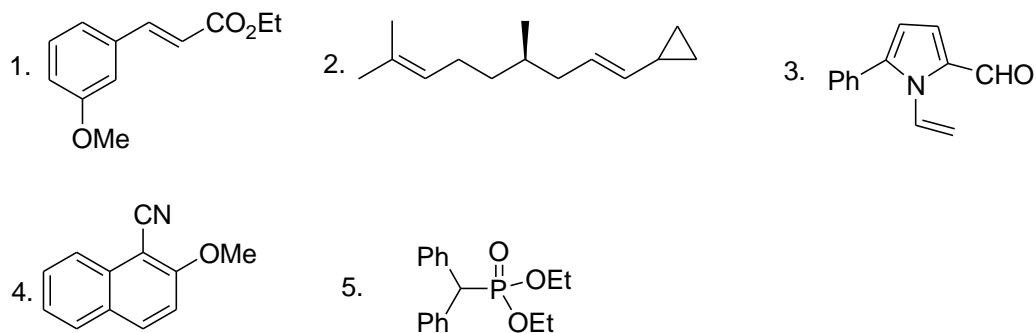
### Lecture 37



### Lecture 38



### Lecture 39



**Lecture 40**

