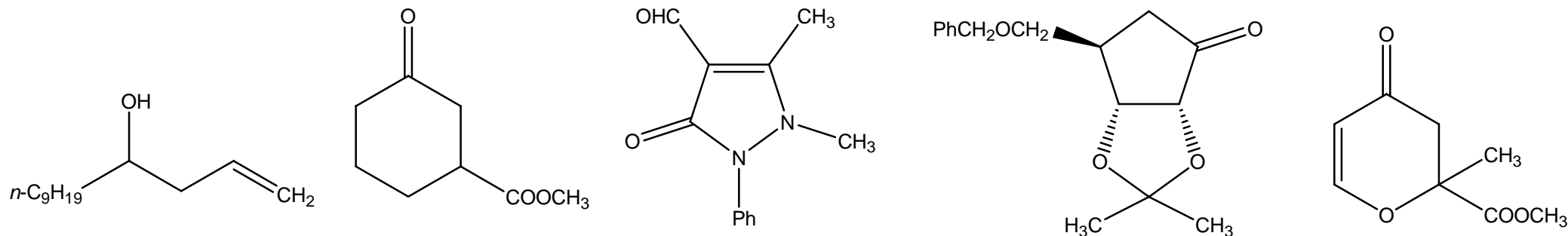


Задание №2. Восстановите схемы пяти пятистадийных синтезов.

(целевые продукты приведены ниже)



- A) 1. NaNO_2/HCl , 0-5°C; .. 2. SnCl_2/HCl ; 3. $\text{CH}_3\text{COCH}_2\text{COOEt}$ 4. MeI/MeOH , Δ 5. 1) DMF/POCl_3 , Δ
2) NaHCO_3 , H_2O
- B) 1. 1) OsO_4 , NMO , 2. 1) O_3 , CH_2Cl_2 , -78°C. 3. $\text{PhCH}_2\text{Cl}/\text{t-BuOK}$ 4. 1) $\text{MeSO}_2\text{Cl}/\text{Et}_3\text{N}$ 5. 1) DBU
t-BuOH/ H_2O 2) NaBH_4 2) $\text{NaI}/\text{acetone}$ 2) $\text{OsO}_4/\text{NaIO}_4$
2) TsOH , $(\text{CH}_3)_2\text{C}(\text{OCH}_3)_2$ 2) $\text{t-BuOH}/\text{THF}/\text{H}_2\text{O}$
- C) 1. P/Br_2 2. $\text{PhSH}/\text{K}_2\text{CO}_3$, 3. NCS/CCl_4 , 0°C 4. Na_2CO_3 5. $\text{Li}/\text{naphthalene}$, THF , 0°C
DMF, Δ $\text{CH}_2=\text{CHCH}_2\text{OH}$
- D) 1. HNO_3/Δ 2. $\text{MeOH}/\text{H}_2\text{SO}_4$, Δ 3. Na , $\text{toluene}/\Delta$ 4. 1) NaH 5. $\text{AIBN}/\text{Bu}_3\text{SnH}$, Δ
2) CH_2I_2
- E) 1. $\text{HCOOCH}_3/\text{MeONa}$.. 2. MeOH/HCl 3. MeONa/Δ 4. $\text{TMSCl}/\text{Et}_3\text{N}$ 5. 1) $\text{CH}_3\text{C}(\text{O})\text{COOMe}$,
 $\text{Cu}(\text{OTf})_2/\text{CH}_2\text{Cl}_2$, -78°C
2) TFA , CH_2Cl_2