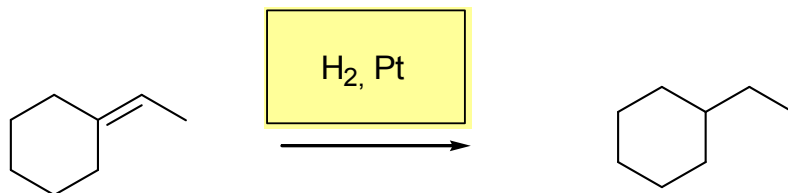
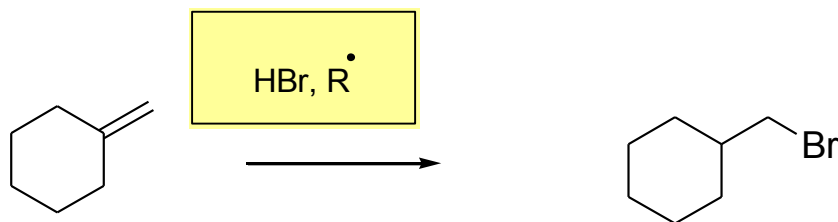
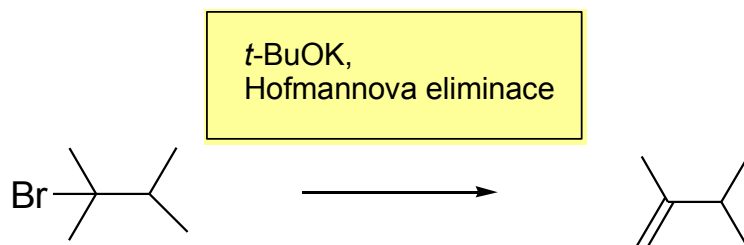
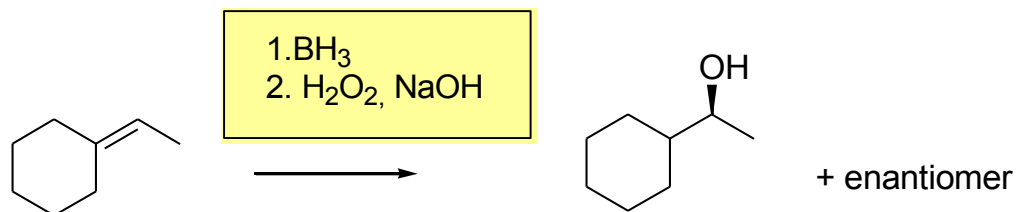


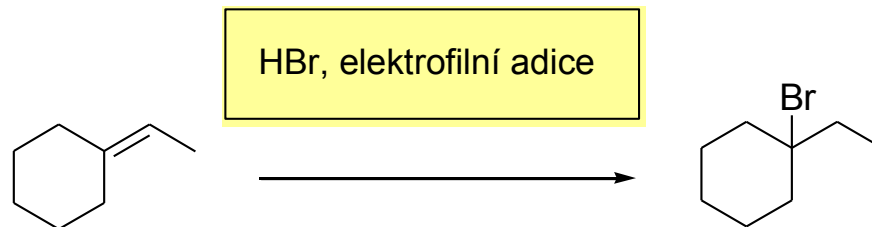
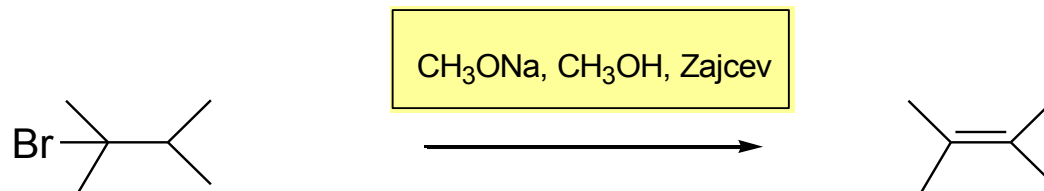
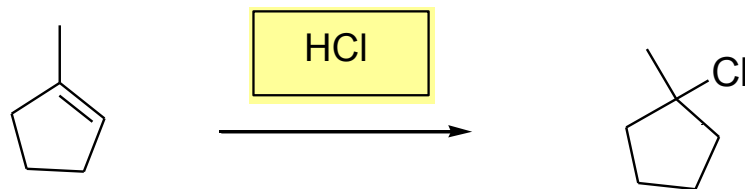
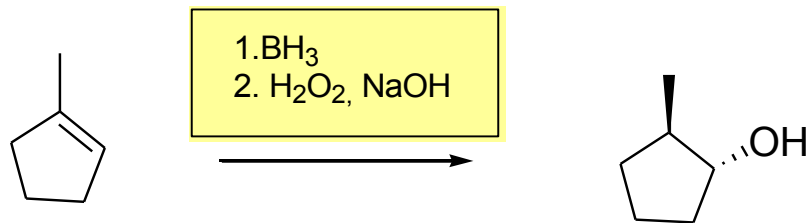
# ALKENY, ALKYNY

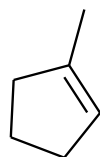


# Strategie chemické syntézy

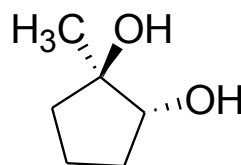
Jakými činidly byste uskutečnili následující přeměny



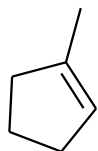




1. RCOOOH  
2. H<sub>2</sub>O, H<sup>+</sup>

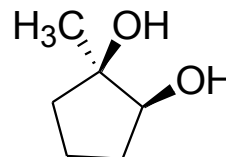
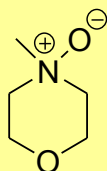


+ enantiomer



OsO<sub>4</sub>, katal. množství

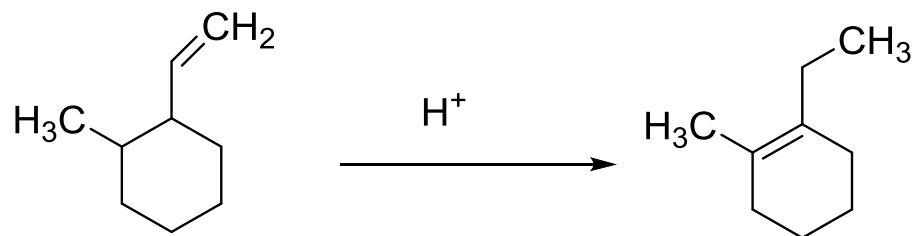
H<sub>2</sub>O



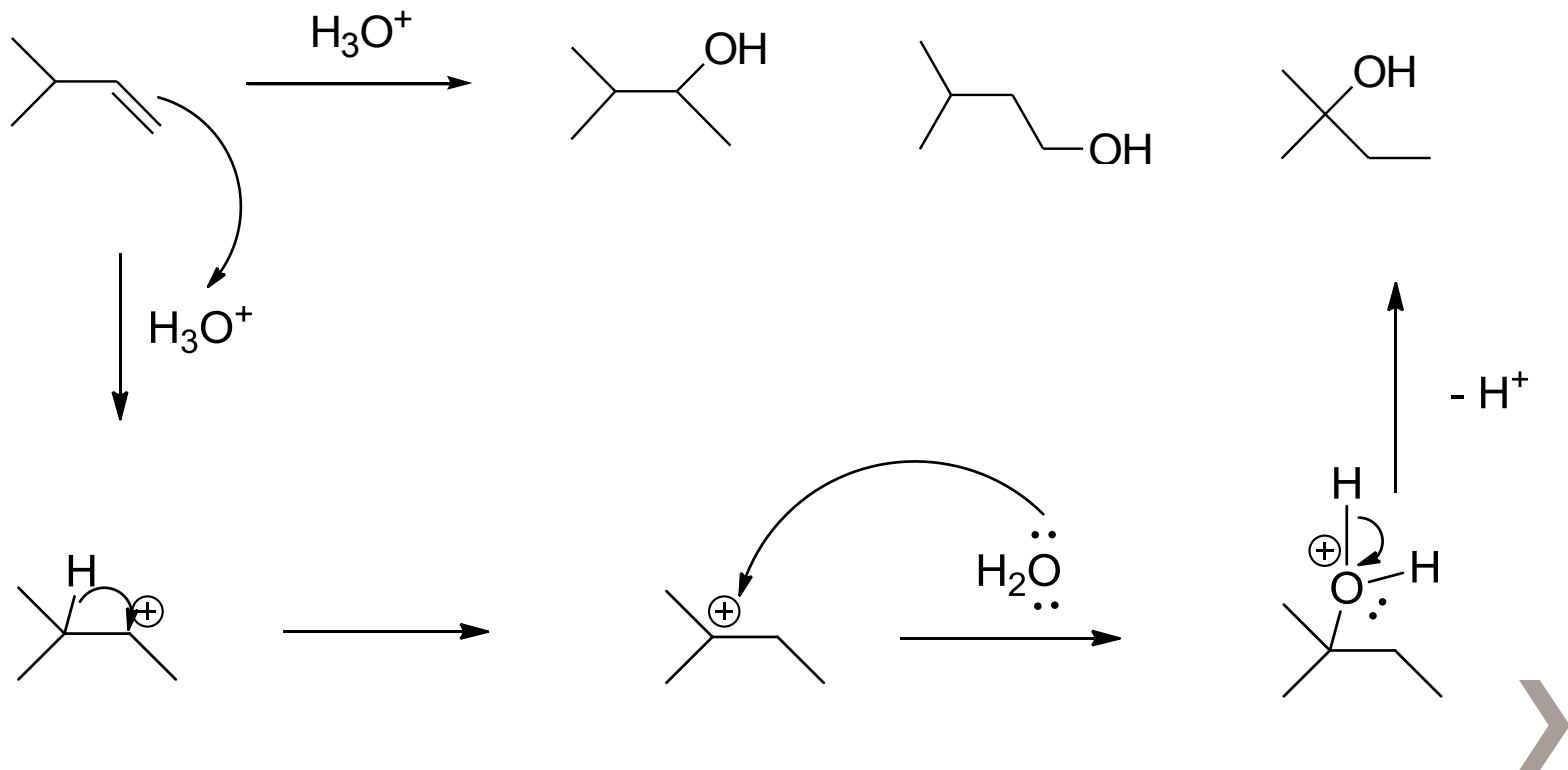
+ enantiomer



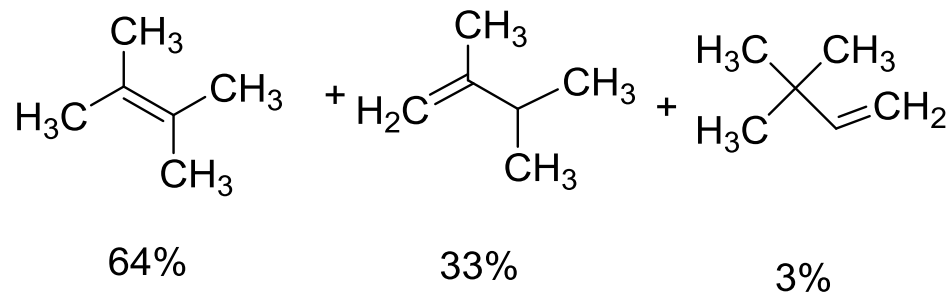
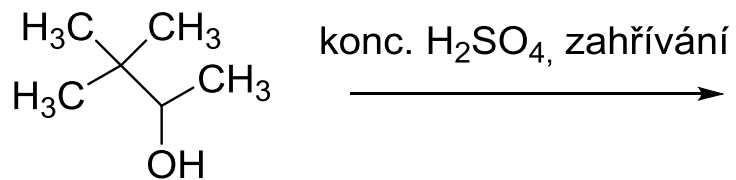
» Navrhněte mechanismus pro kyselé katalyzovanou izomeraci uvedeného alkenu



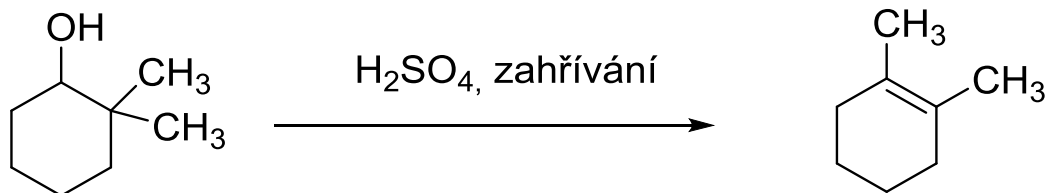
» Určete, která ze sloučenin bude hlavním produktem reakce a navrhnete mechanismus jeho vzniku



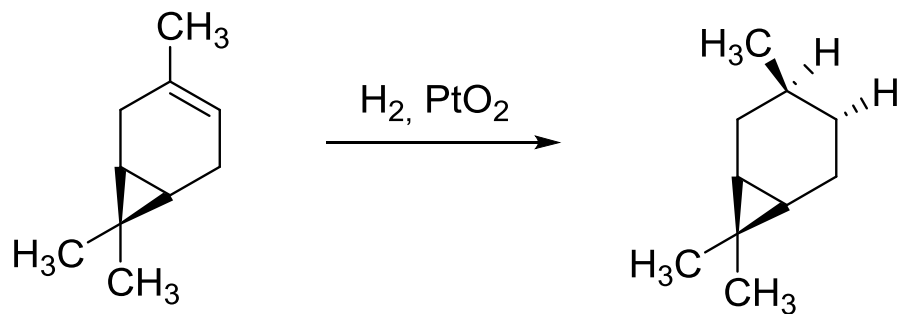
» Navrhňte mechanismus vzniku hlavního produktu uvedené reakce



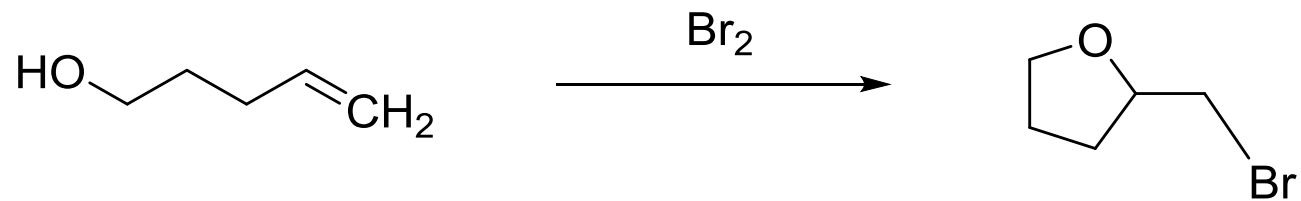
» Navrhněte mechanismus vzniku hlavního produktu uvedené reakce



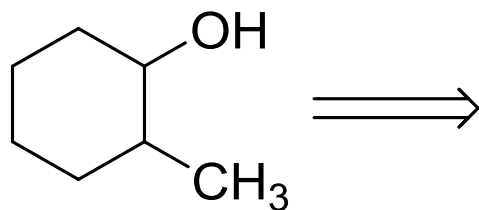
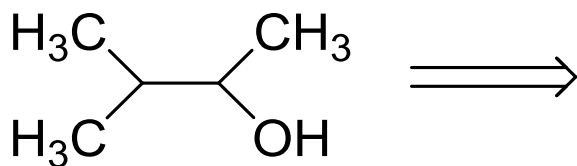
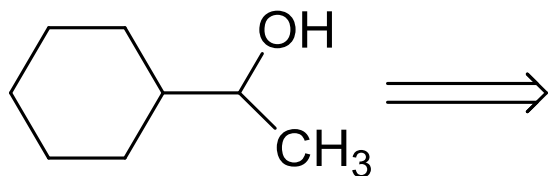




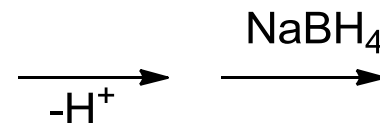
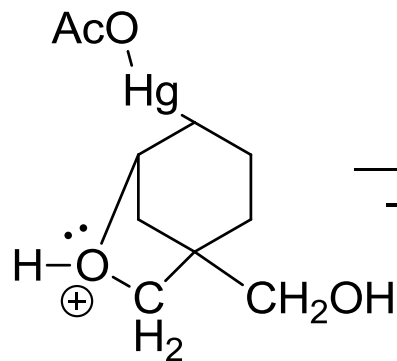
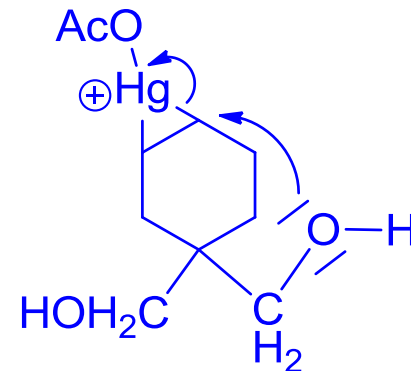
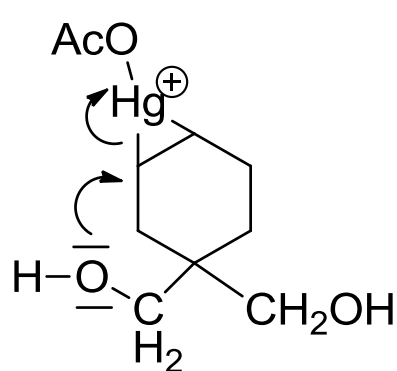
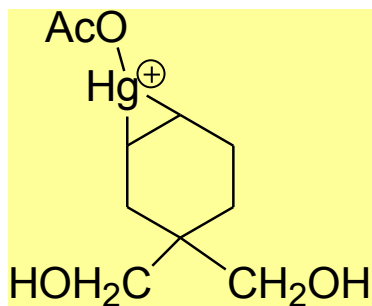
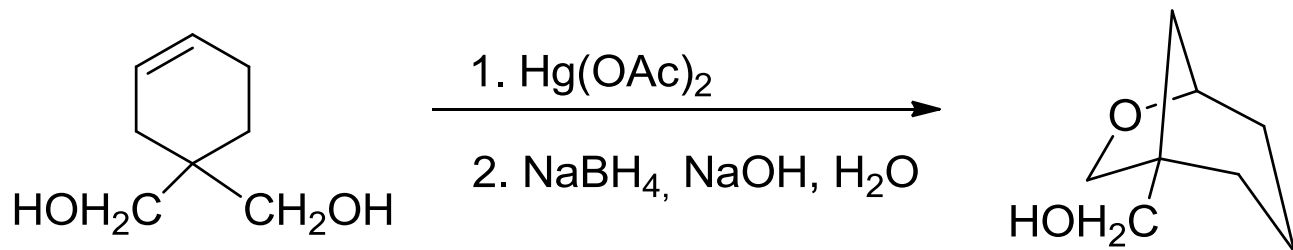
» Navrhněte mechanismus následující přeměny



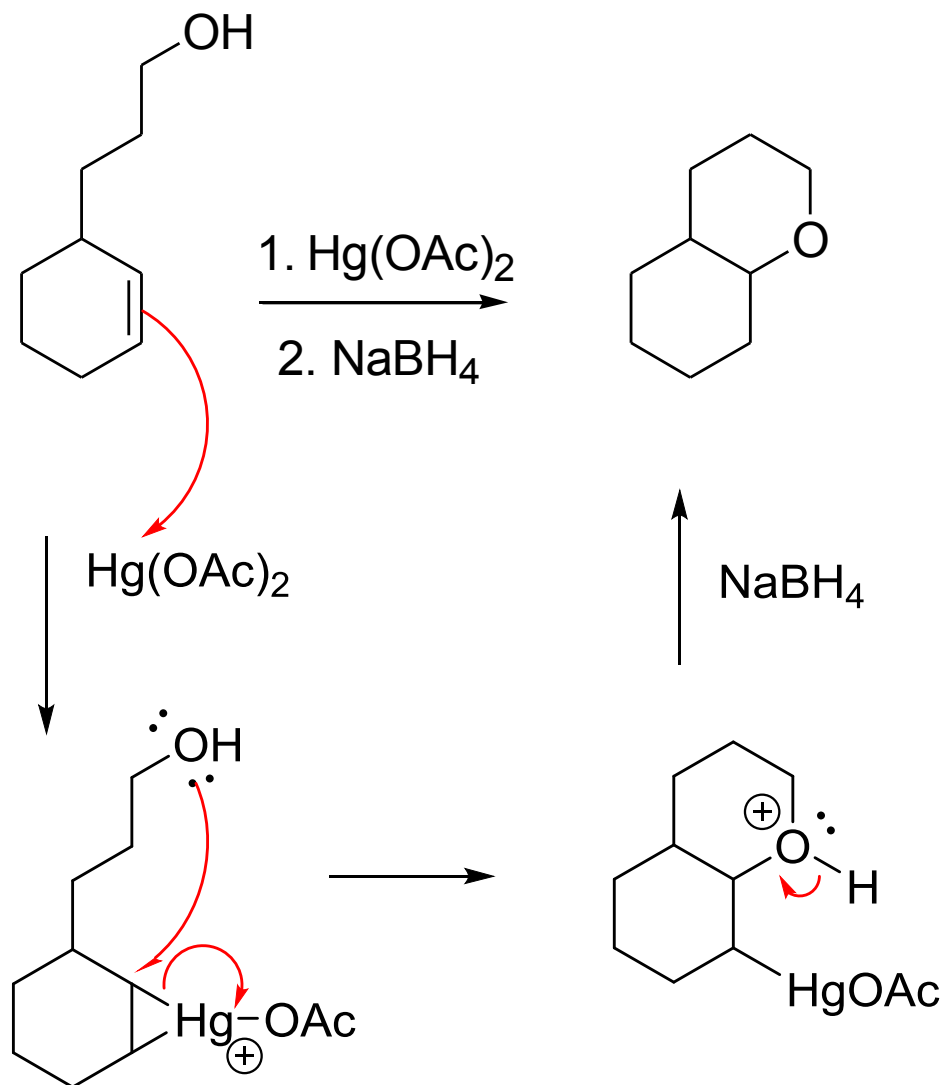
» Jaké alkeny byste využili k syntéze těchto látek pouze hydroborační reakcí



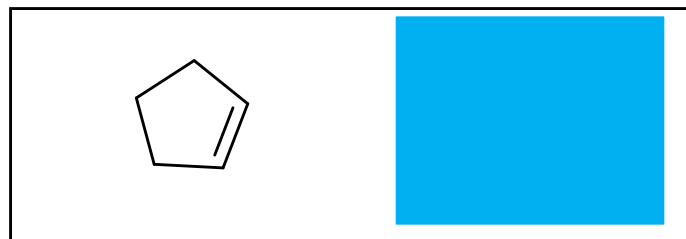
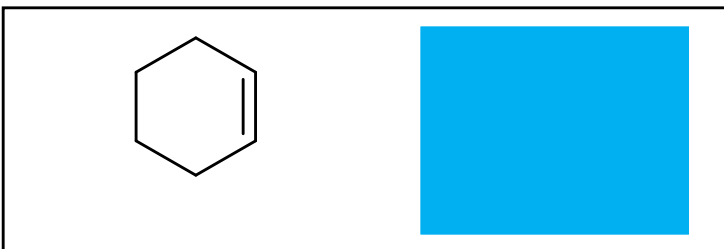
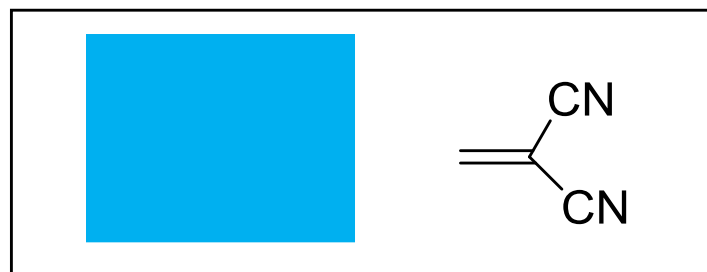
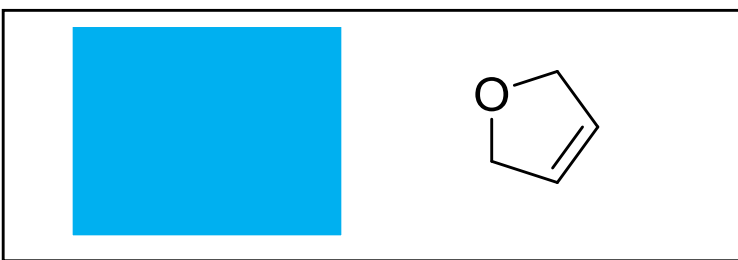
## » Navrhňte mechanismus pro následující reakci



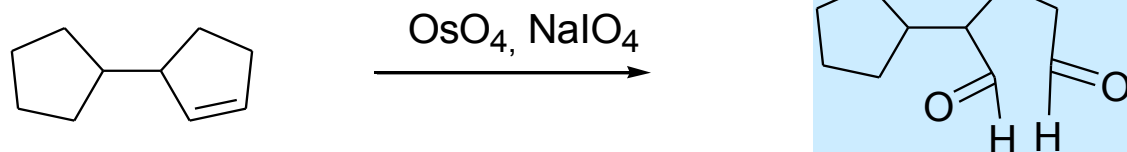
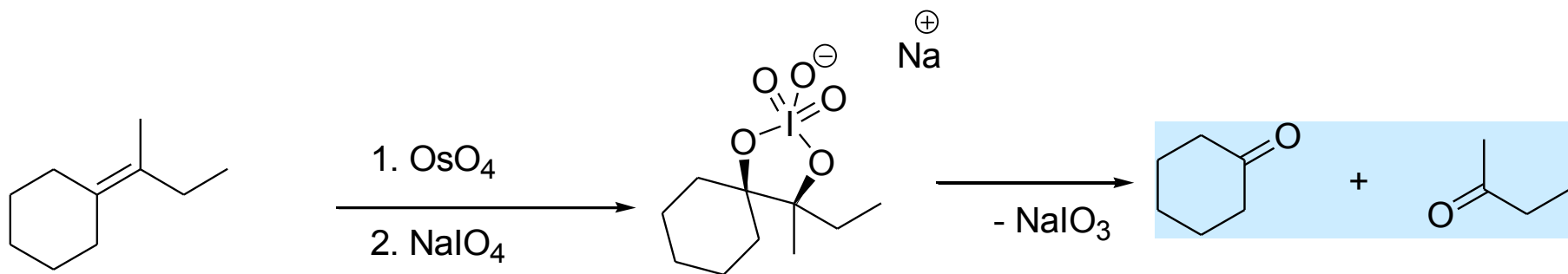
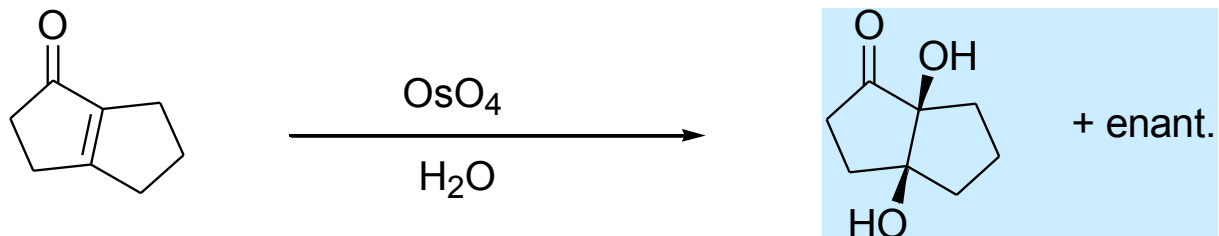
» Navrhněte mechanismus pro následující reakci



» Ve dvojicích rozhodněte, který substrát bude rychleji reagovat s 1 ekv. *m*-CPBA

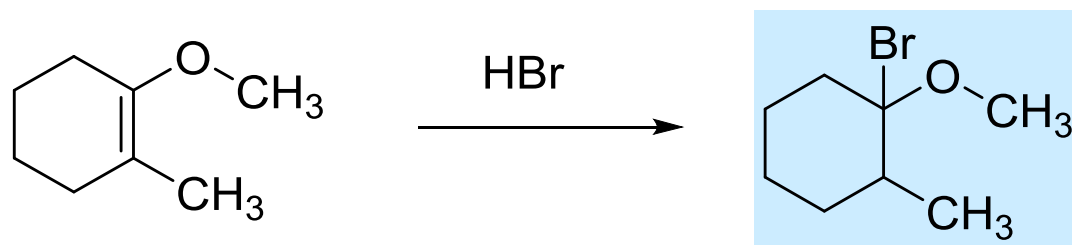
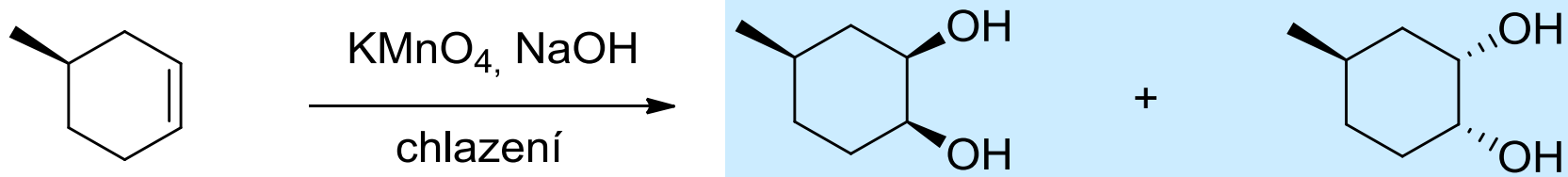


## » Doplňte produkty reakcí včetně správné stereochemie

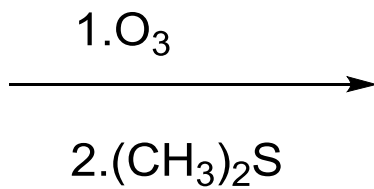
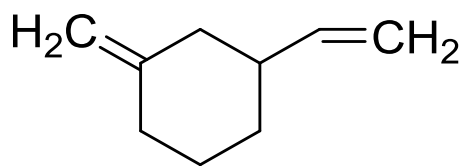
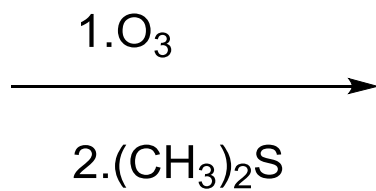
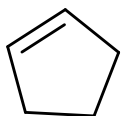
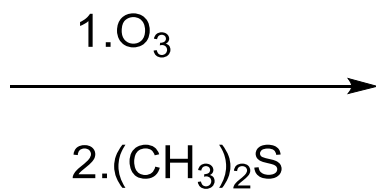
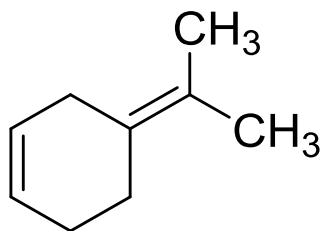


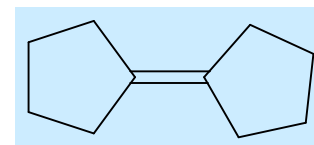
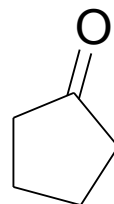
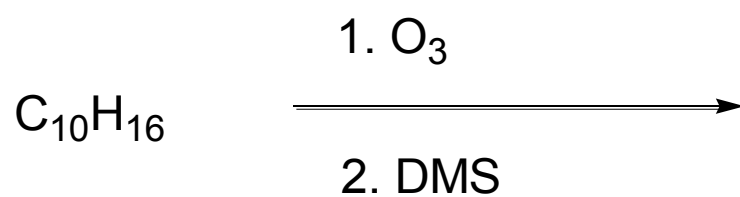
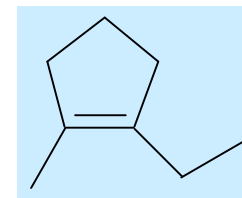
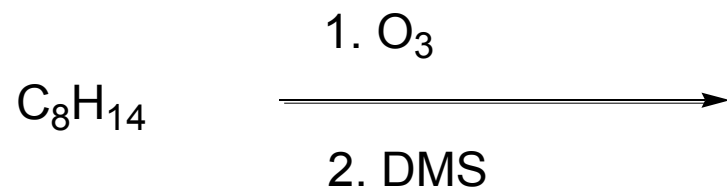
oxidativní štěpení diolů

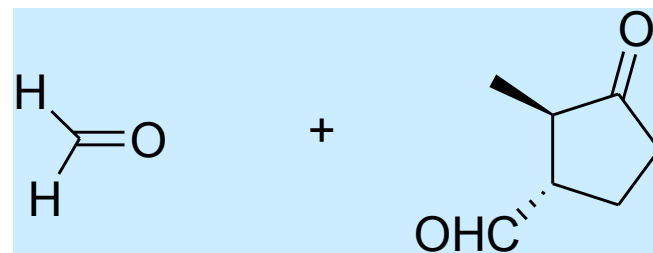
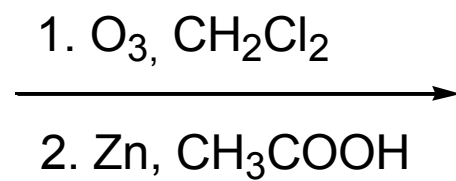
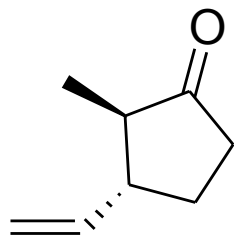




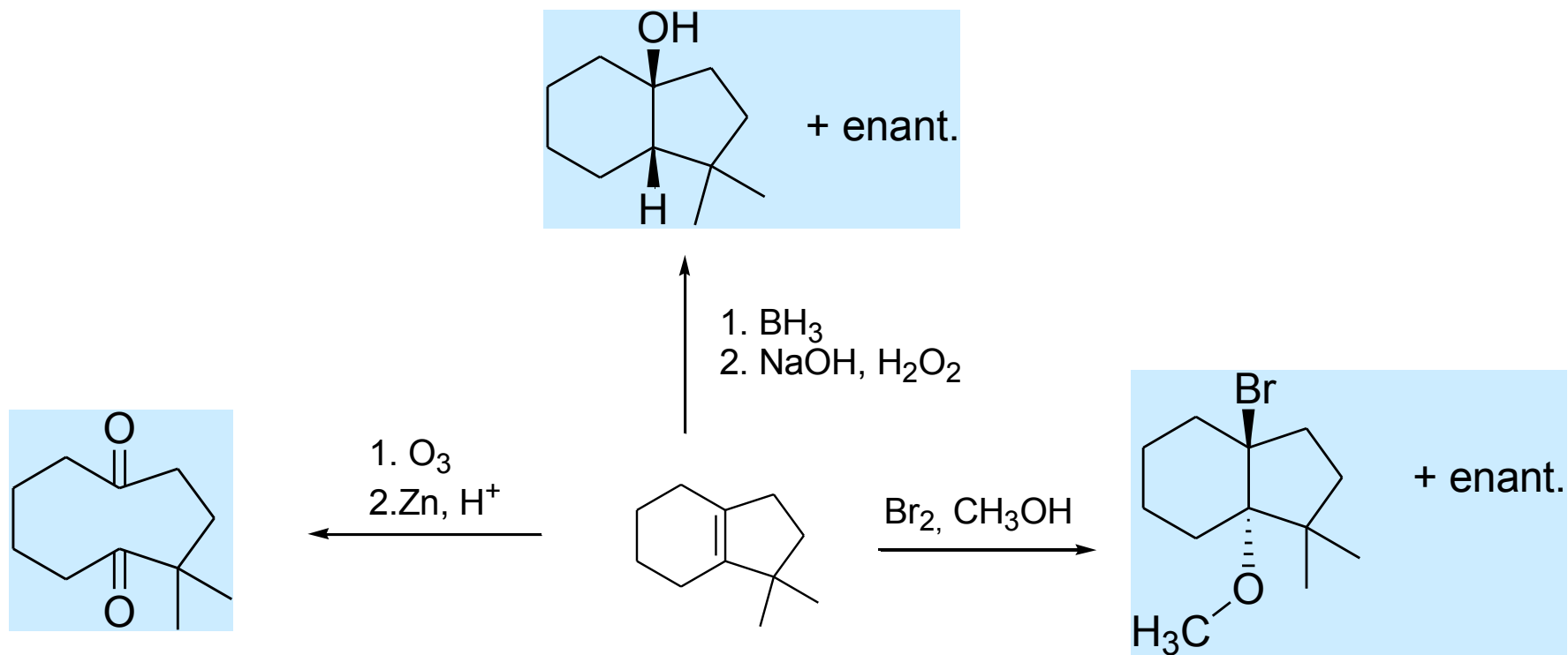




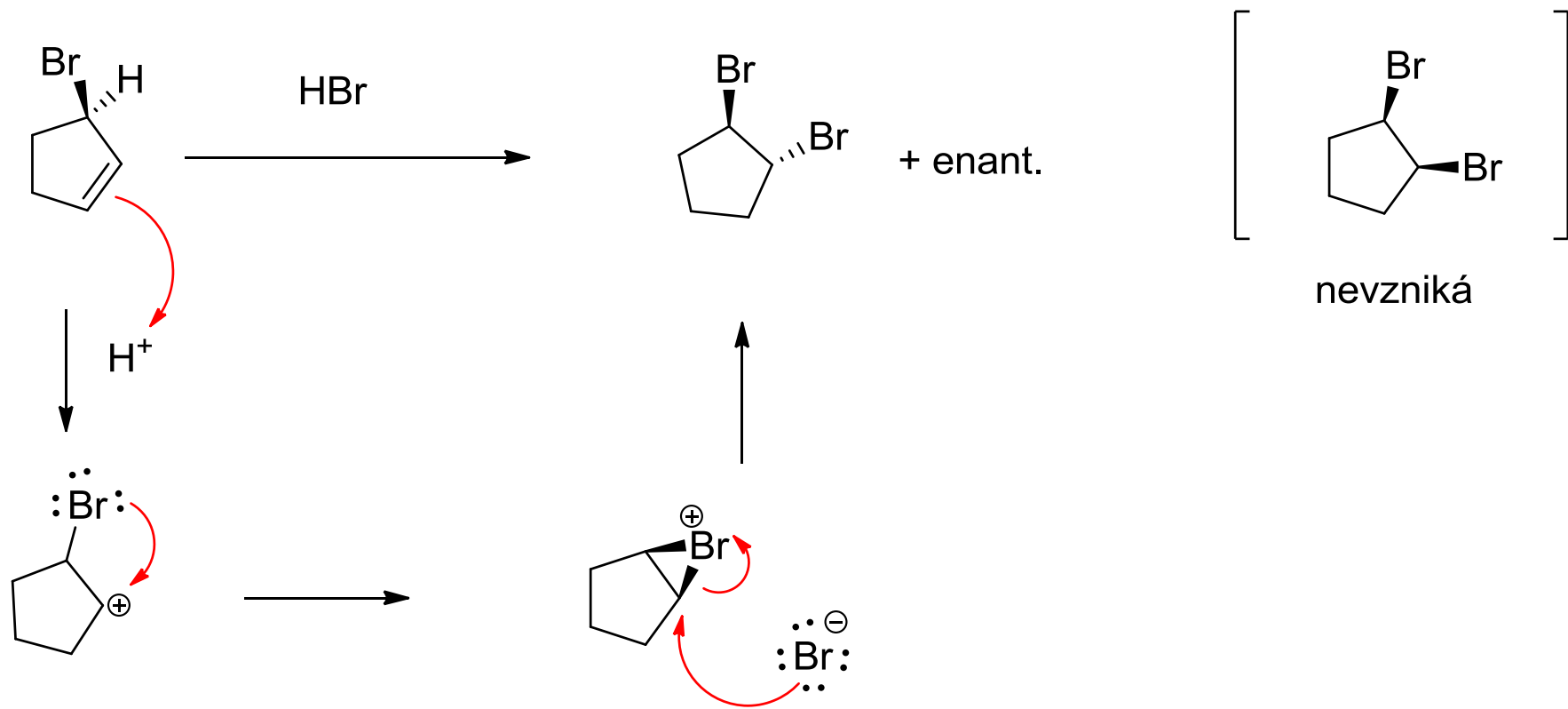




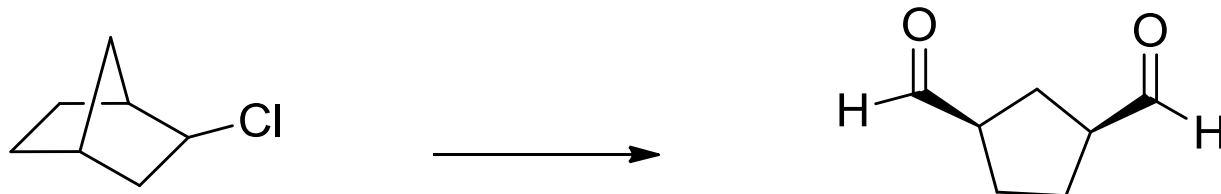
» Doplňte produkty reakcí včetně správné stereochemie



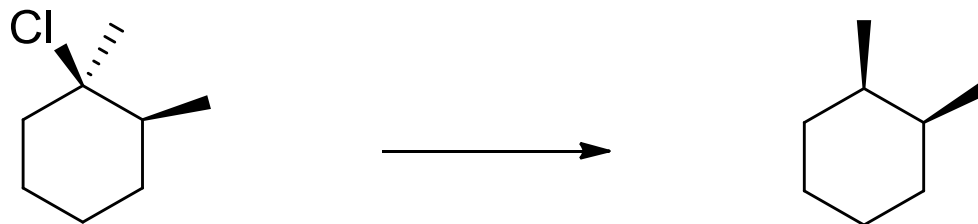
## » Zdůvodněte



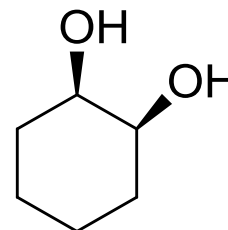
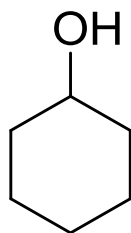
» Navrhněte syntézu uvedených sloučenin



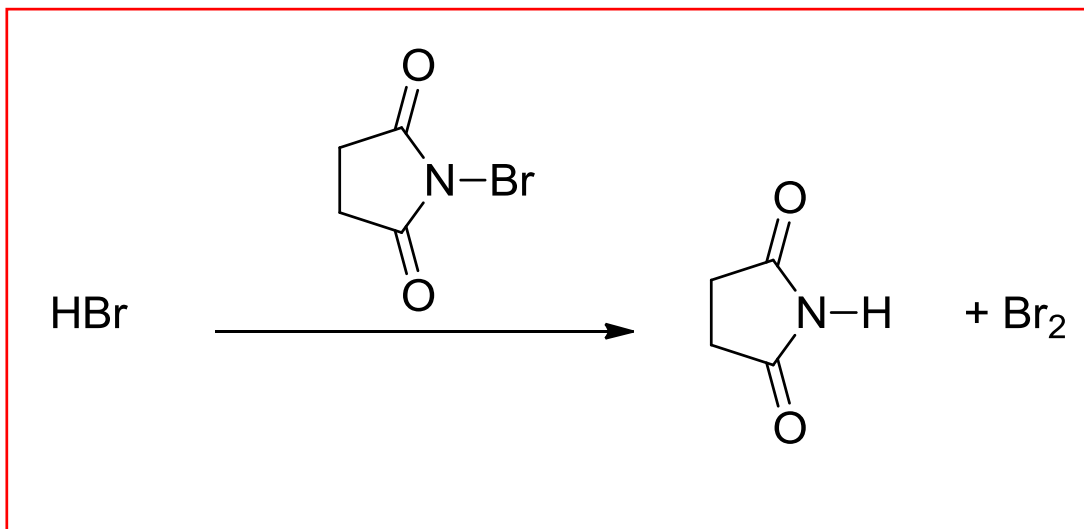
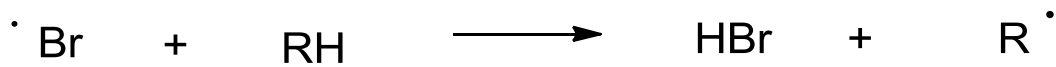
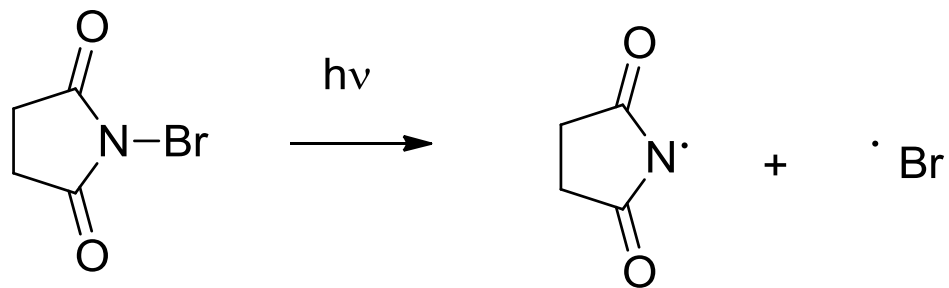
» Navrhněte syntézu uvedených sloučenin



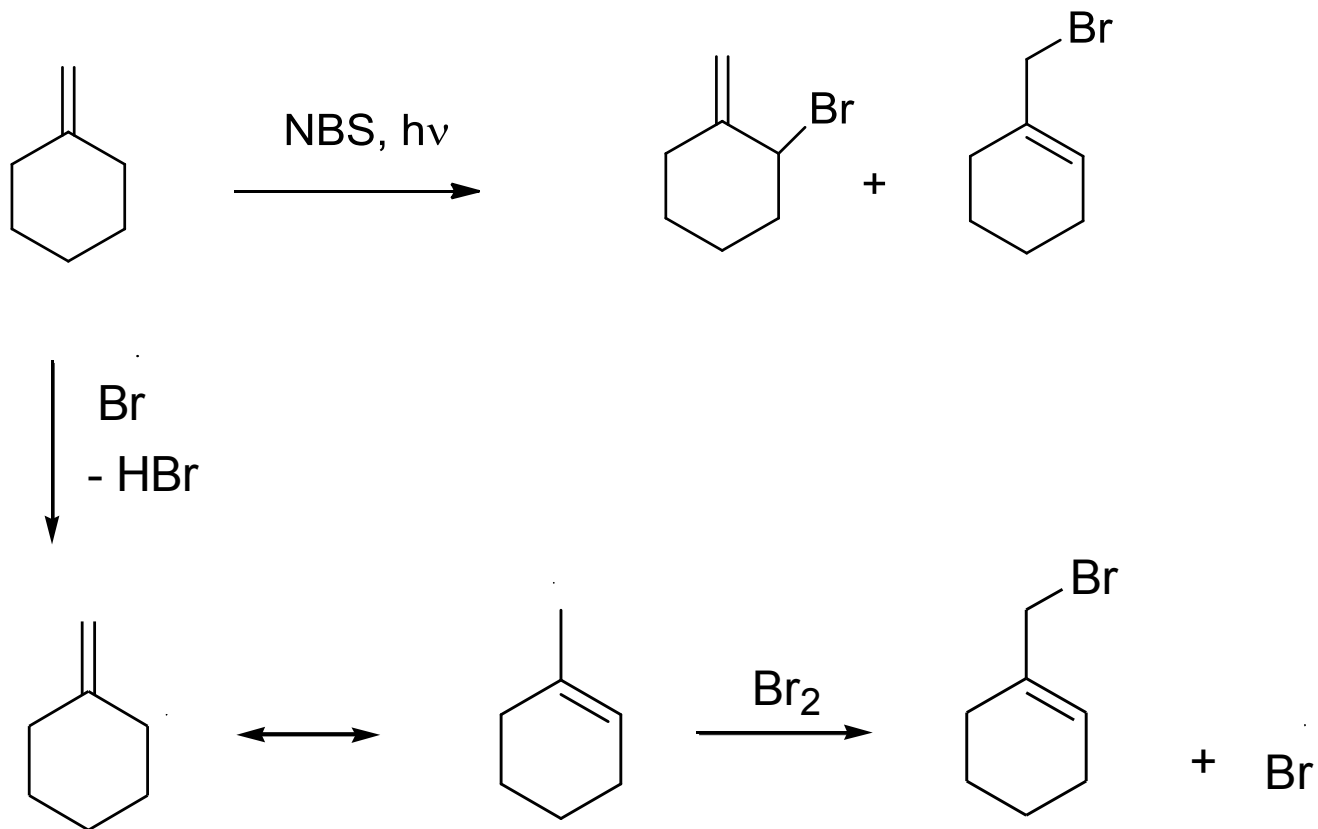
» Navrhněte syntézu uvedených sloučenin



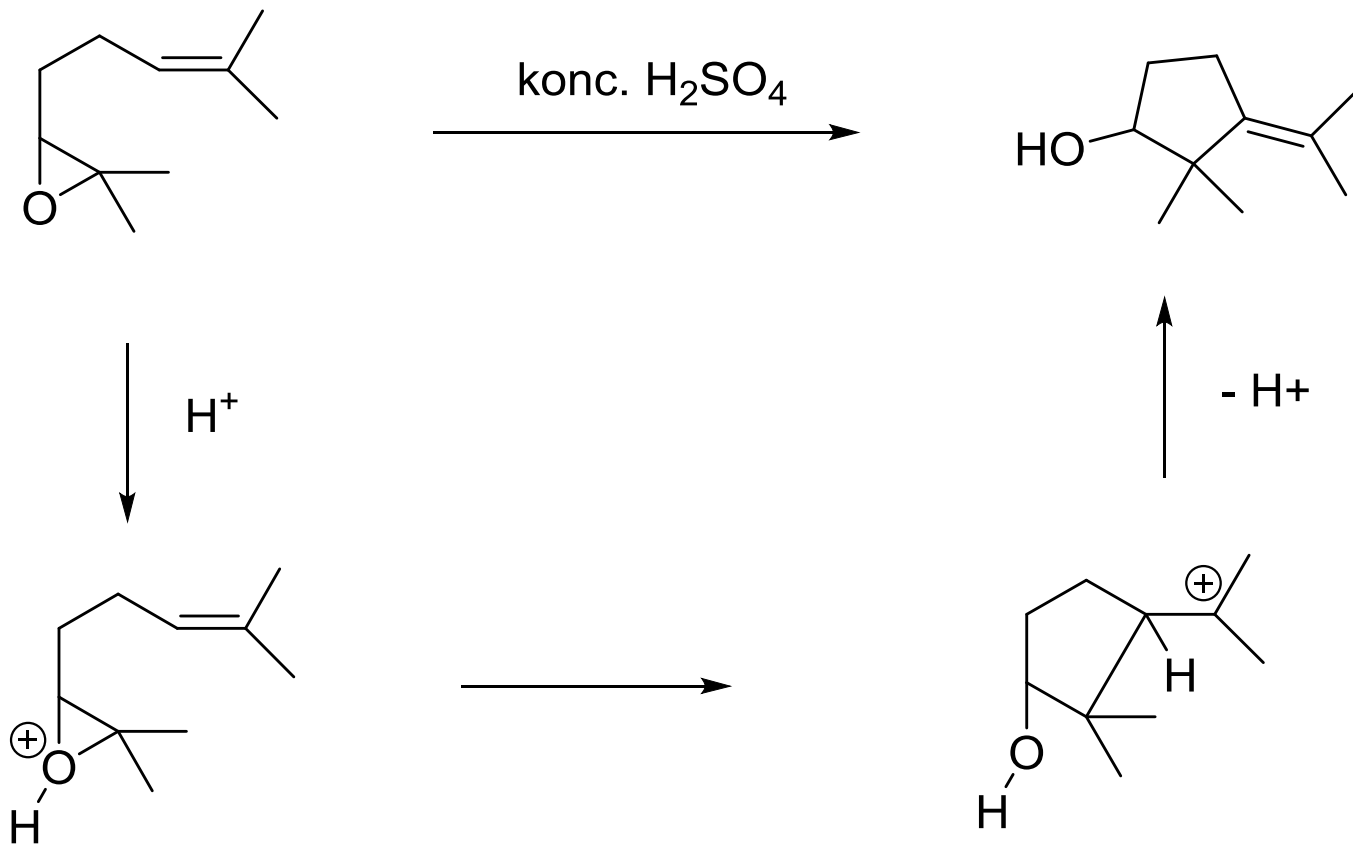




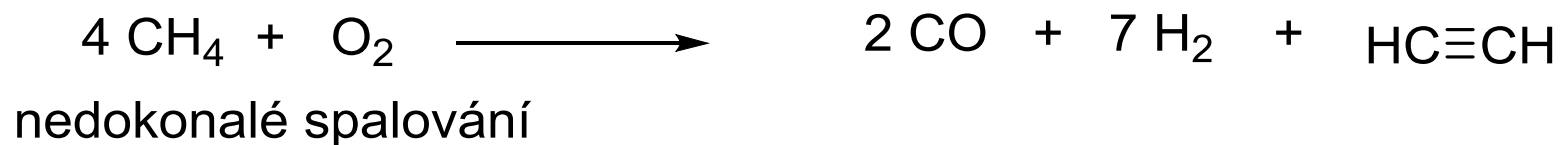
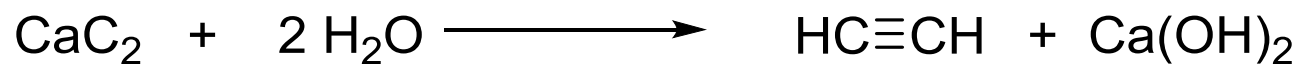
» Zapište mechanismus následující reakce a pokuste se vysvětlit vznik obou uvedených produktů



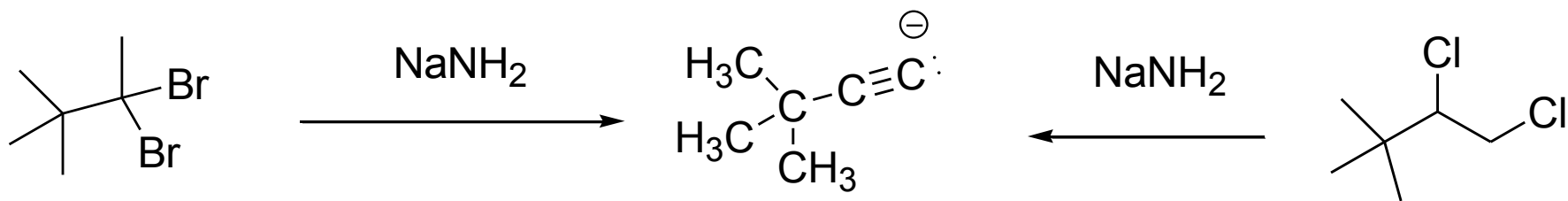
» Pro následující reakci navrhněte vhodný mechanismus a zapište s použitím šipek



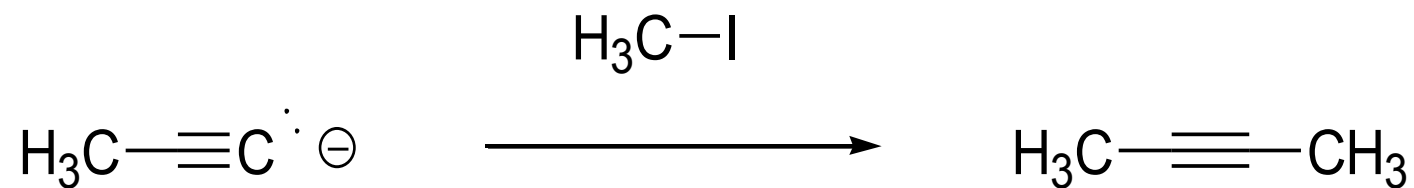
## » ALKYNY



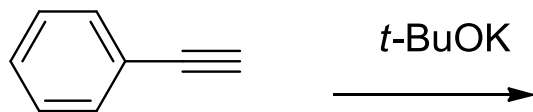
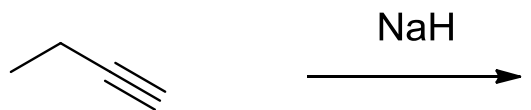
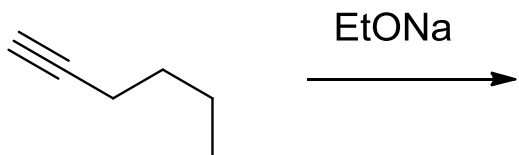
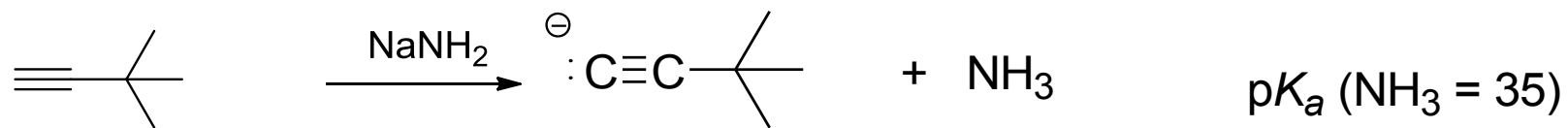
## » ALKYNY



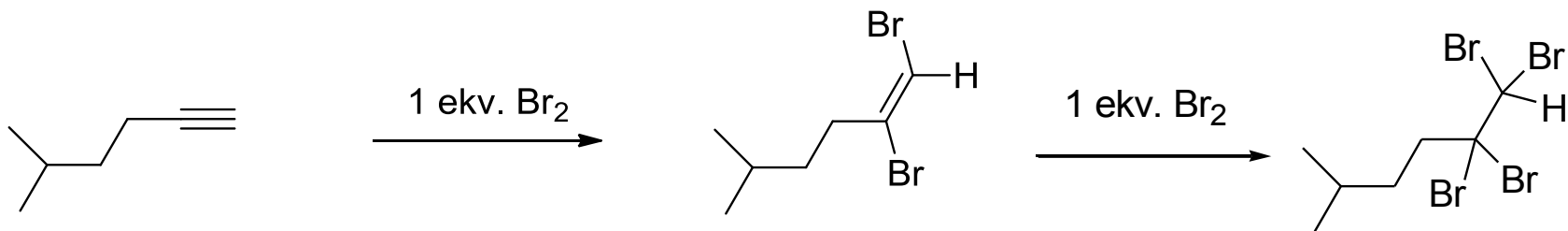
## » ALKYNY



# » ALKYNY

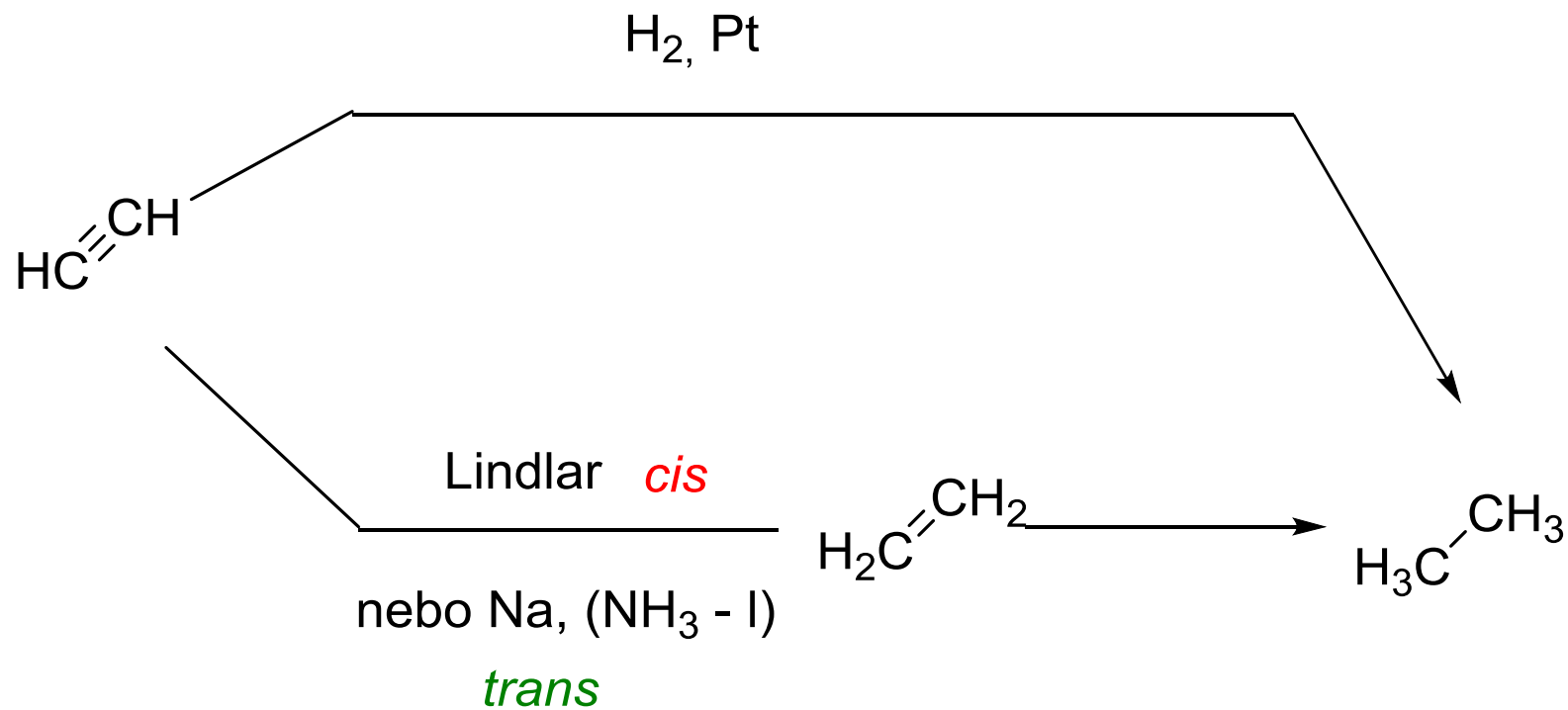


# » ALKYNY

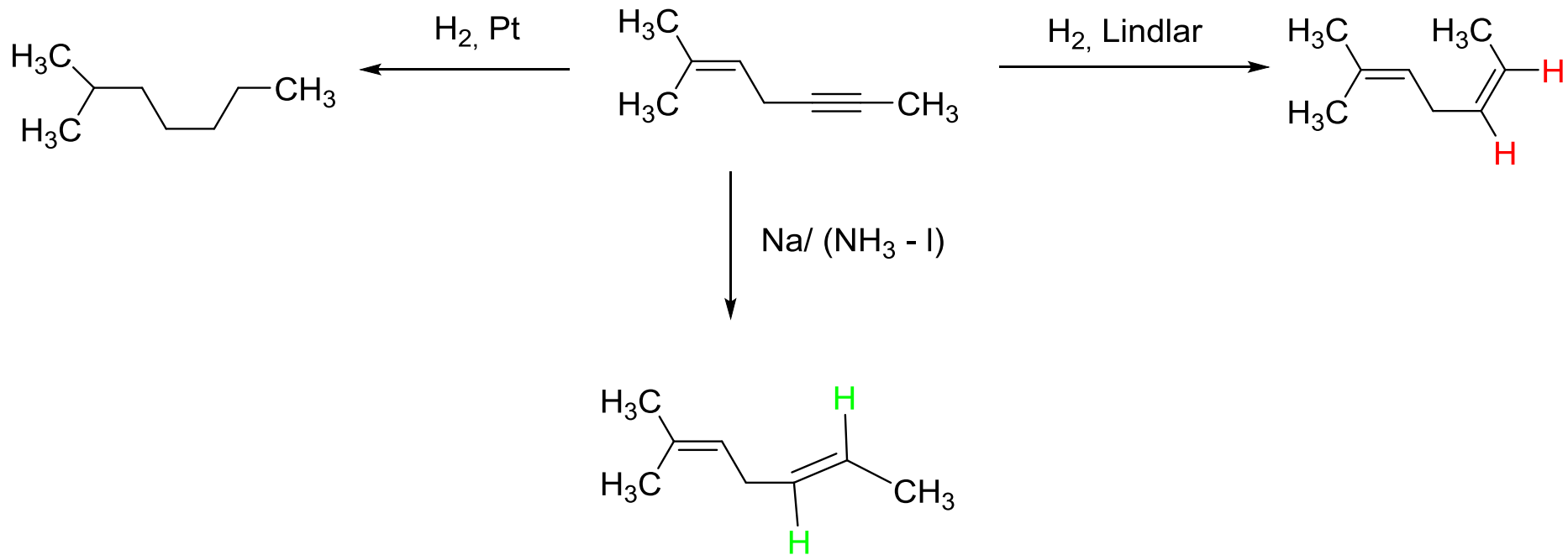




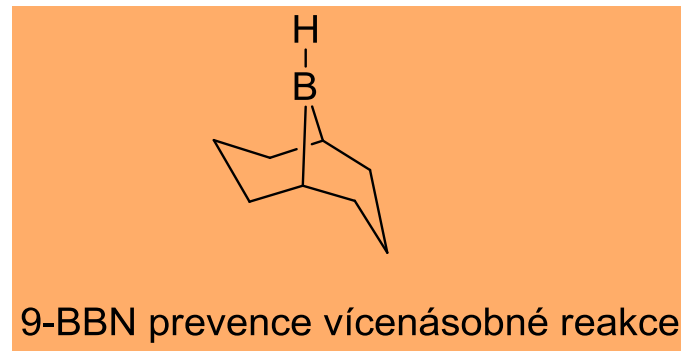
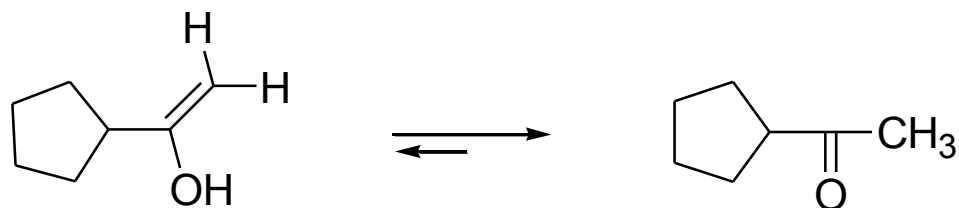
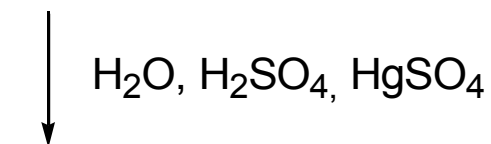
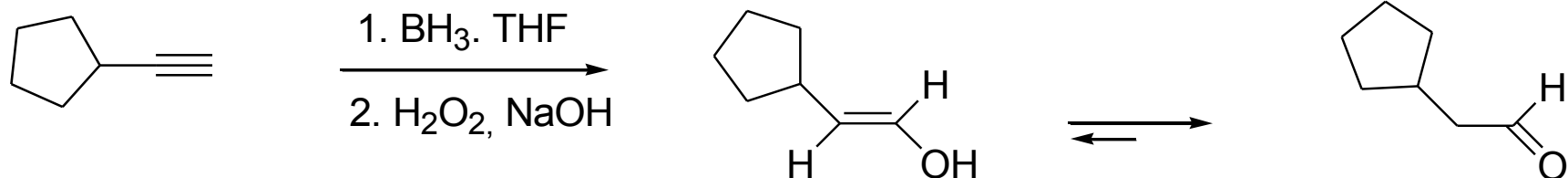
## » ALKYNY



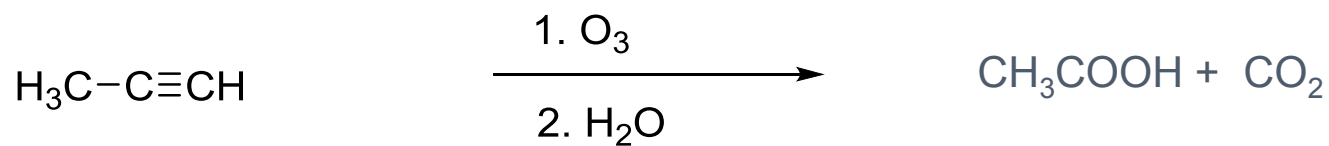
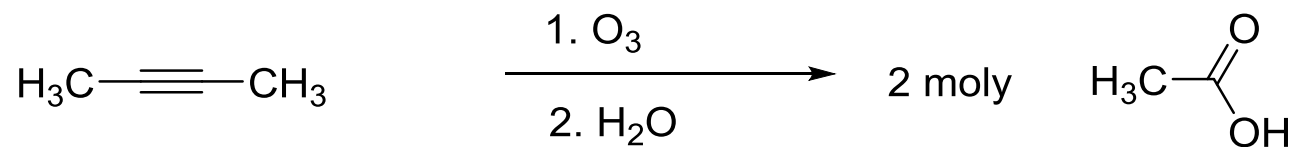
# » ALKYNY



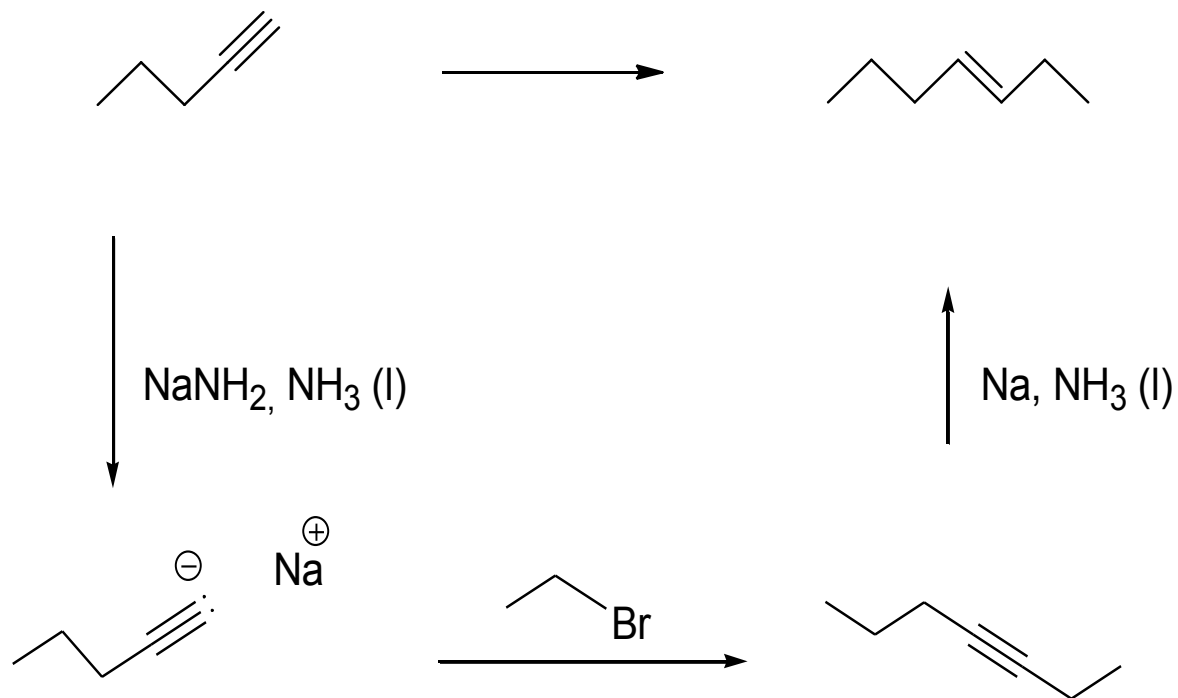
## » Hydroborace alkynů



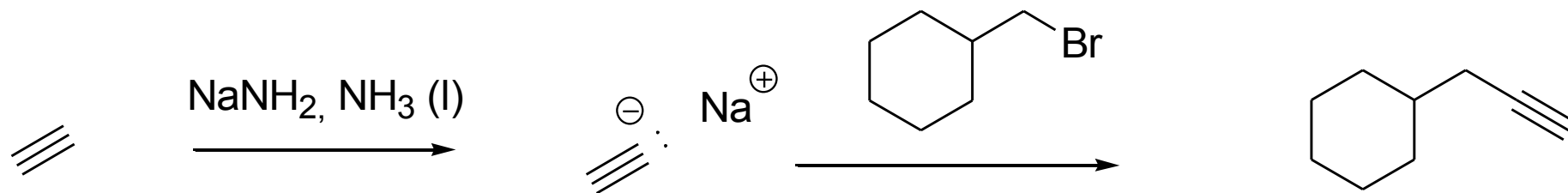
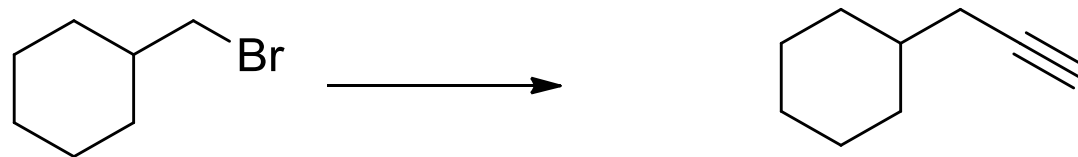
## Ozonolýza alkynů



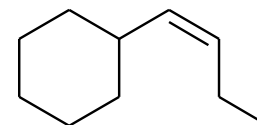
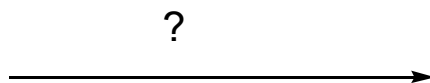
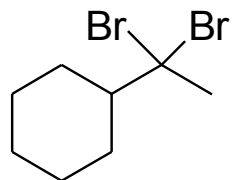
» Navrhněte způsob následující přeměny v několika krocích



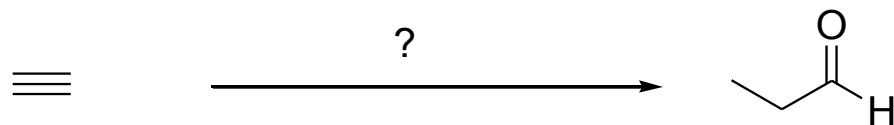
» Navrhněte způsob následující přeměny v několika krocích



1. přebytek  $\text{NaNH}_2$
2.  $\text{EtCl}$
3.  $\text{H}_2$ , Lindlar



1. NaNH<sub>2</sub>
2. MeI
3. 9-BBN
4. H<sub>2</sub>O<sub>2</sub>, NaOH

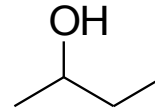
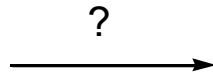
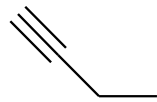


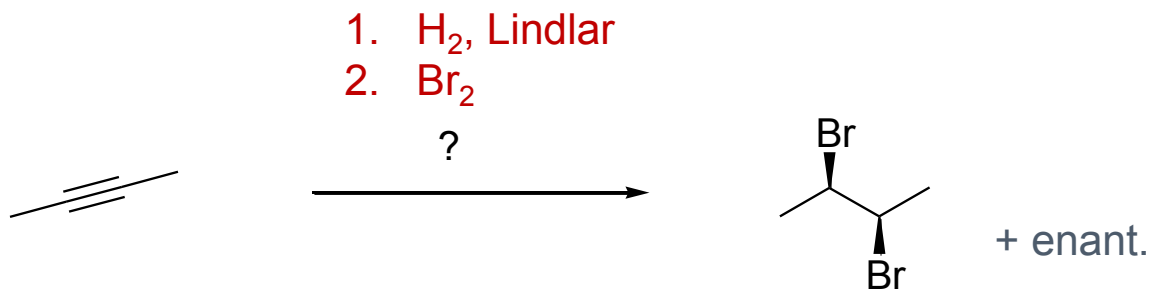


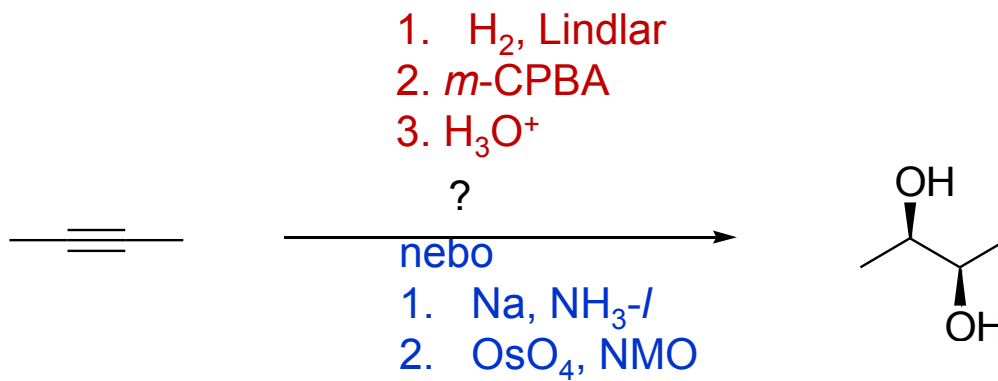
1.  $\text{NaNH}_2$
2. EtI
3.  $\text{HgSO}_4, \text{H}_2\text{SO}_4, \text{H}_2\text{O}$



1.  $\text{H}_2$ , Lindlar
2.  $\text{H}_2\text{O}$ ,  $\text{H}^+$







## » Navrhněte mechanismus následující přeměny

