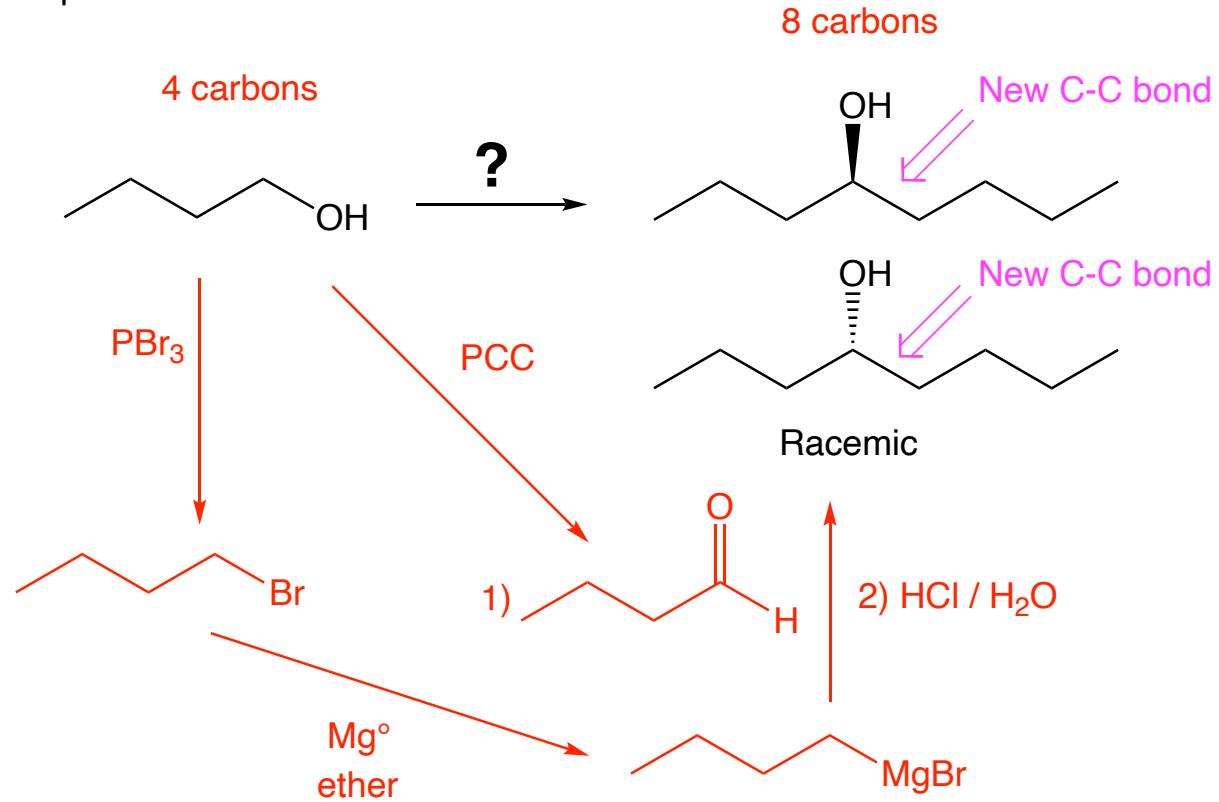


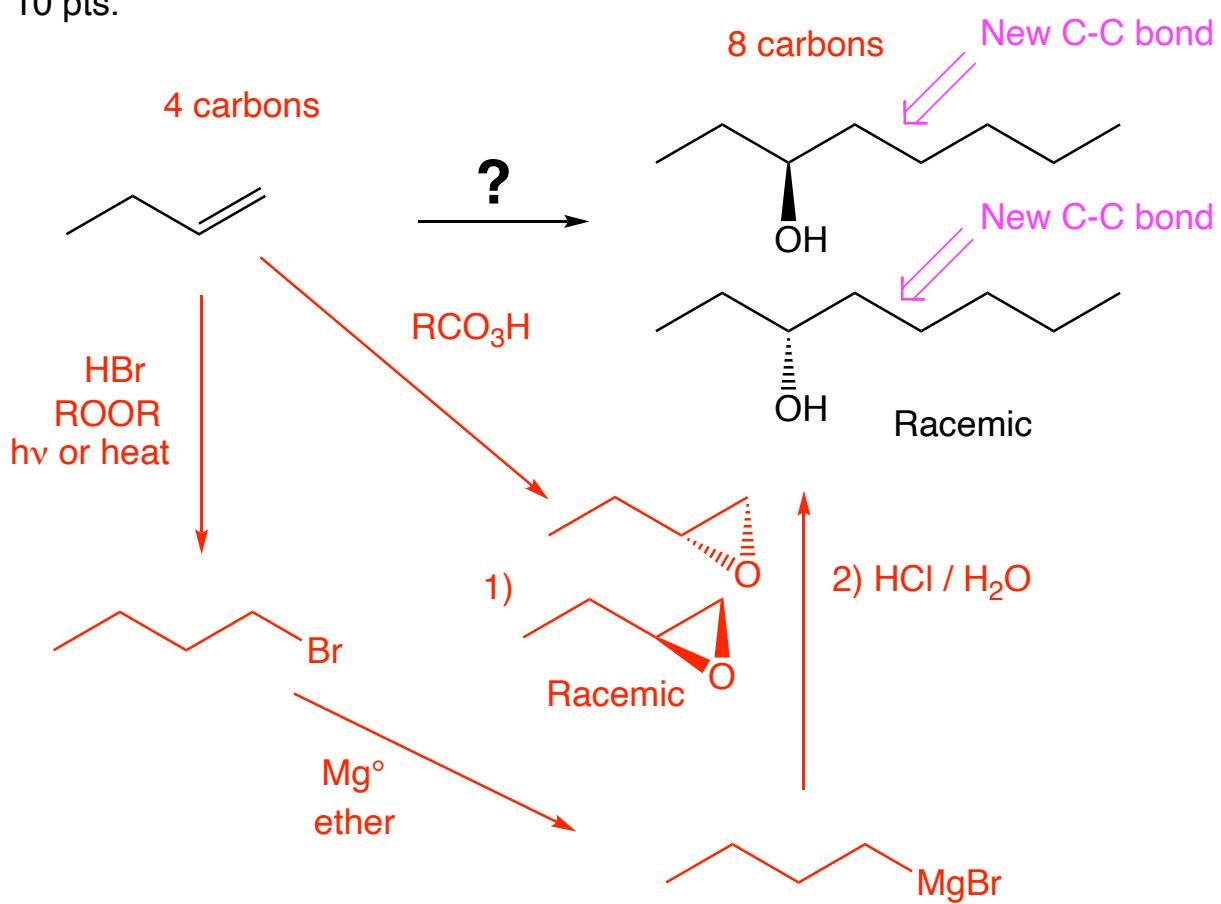
Problem 1

10 pts.



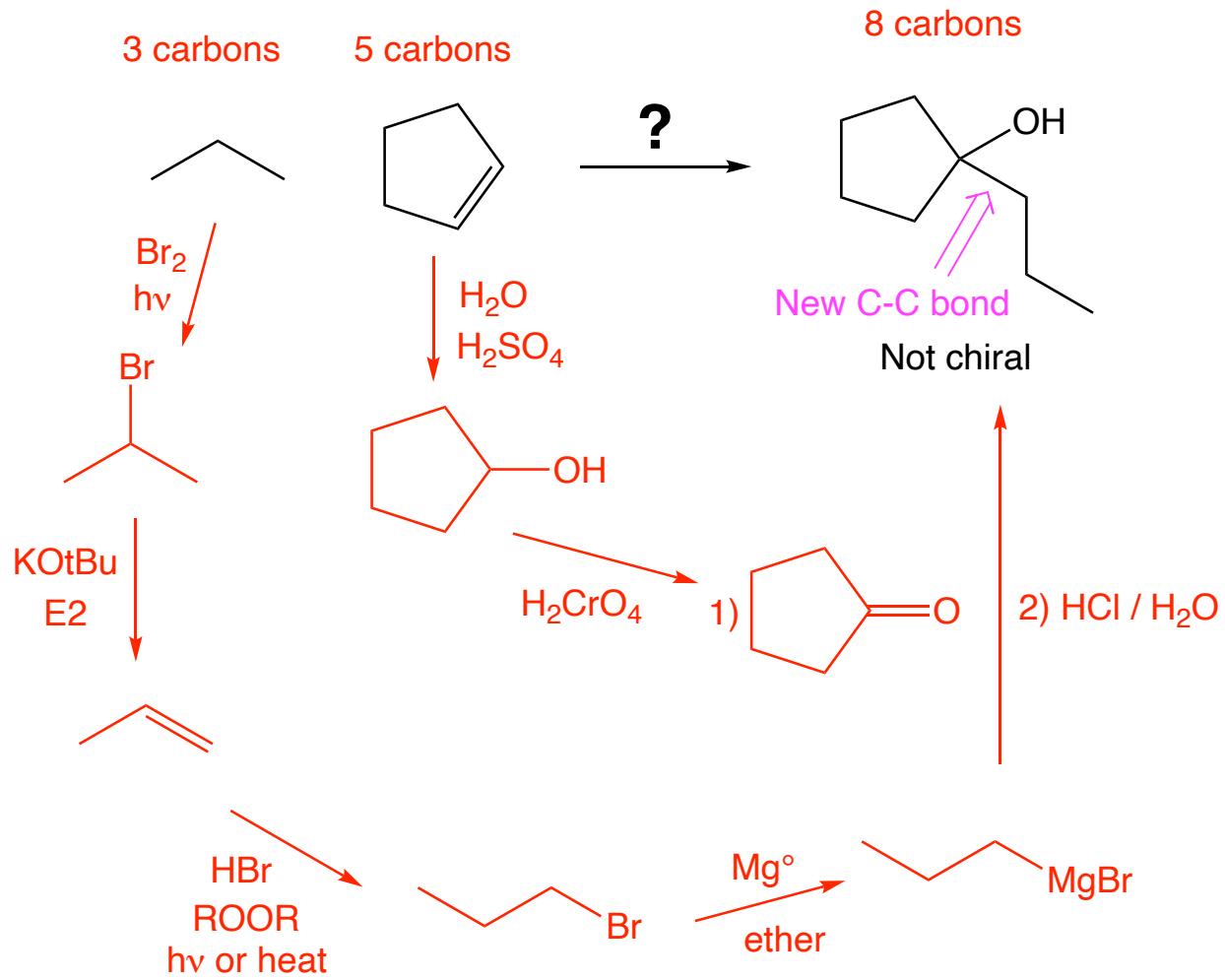
Problem 2

10 pts.



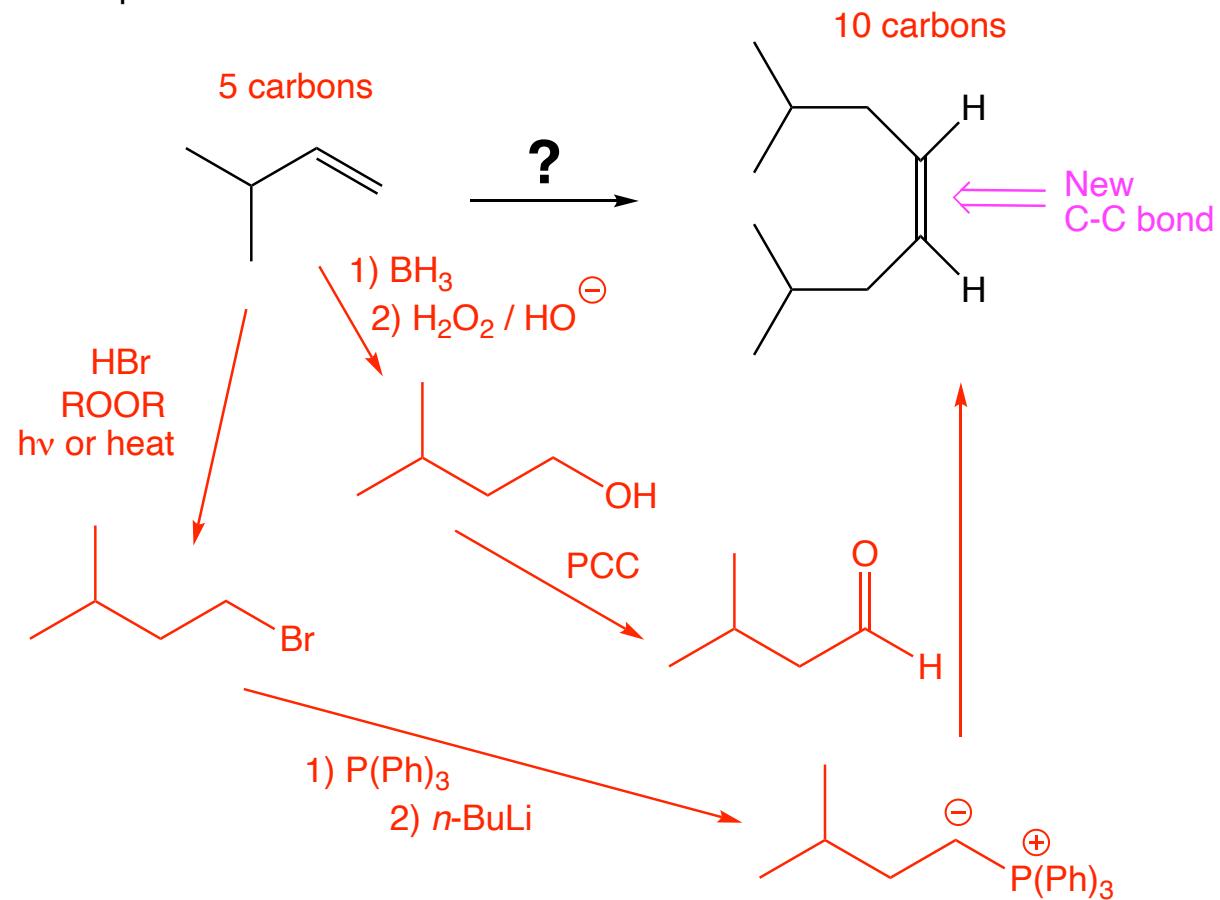
Problem 3

19 pts.



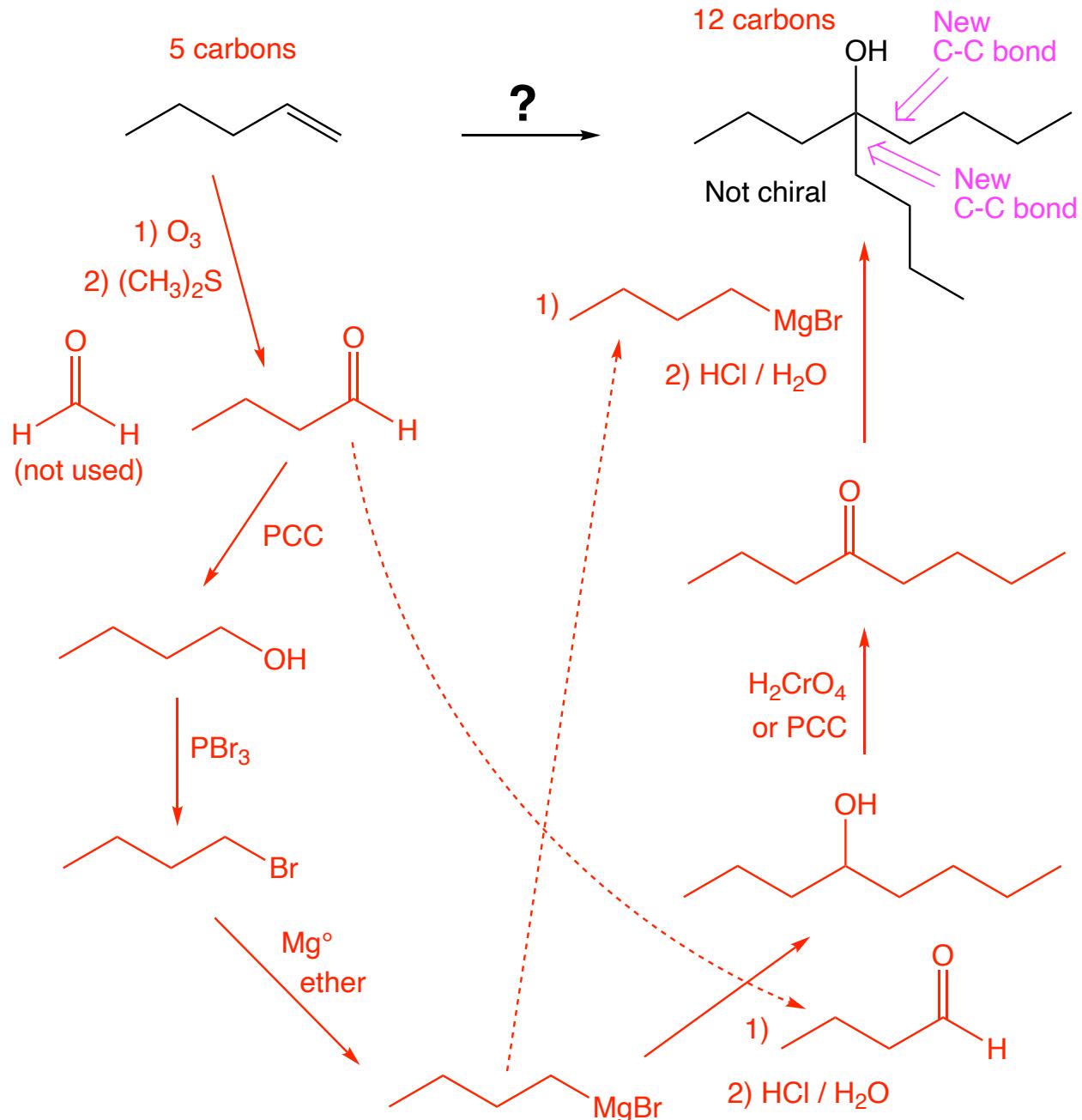
Problem 4

13 pts.



Problem 5

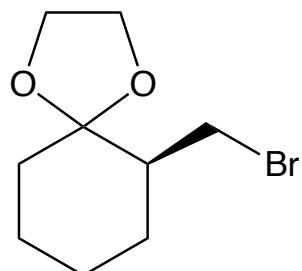
19 pts.



Problem 6

10 pts.

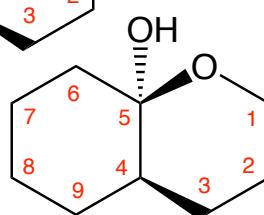
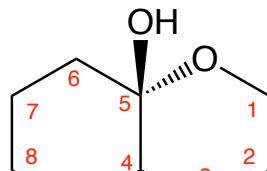
9 carbons



2 carbons

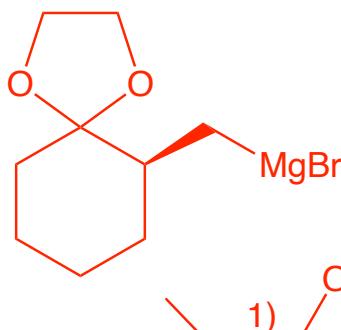


9 carbons

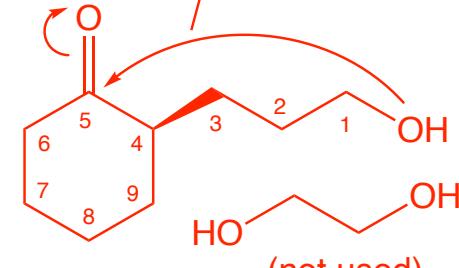
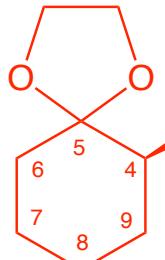


Not racemic,
diastereomers

Mg°
ether



1) 1) O
2) HCl / H₂O



H₂O
H₂SO₄
(catalytic)

New
C-C bond