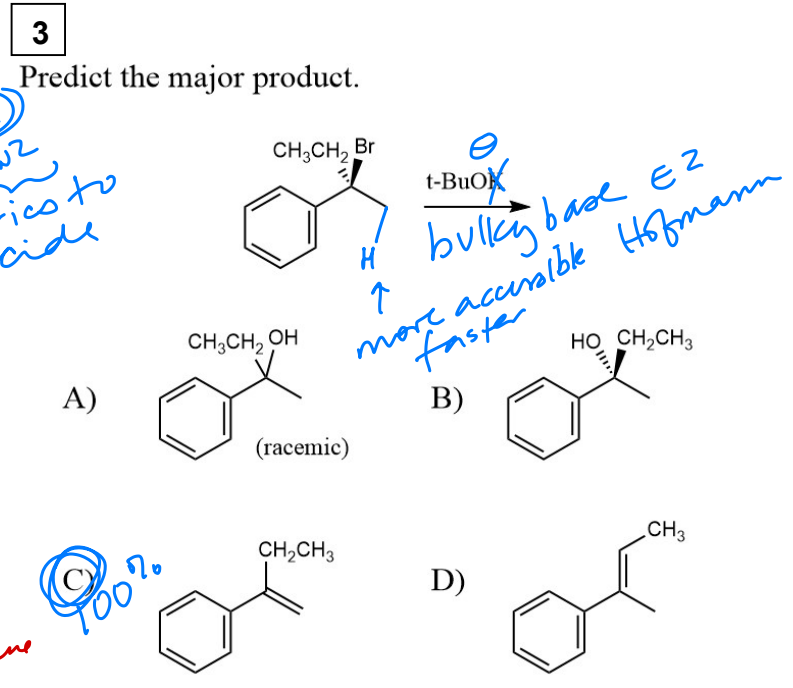
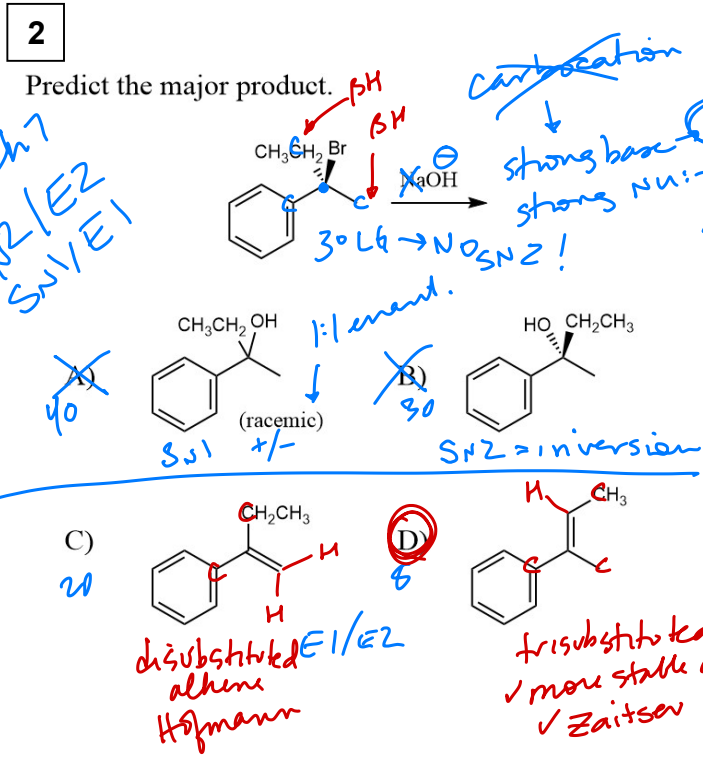
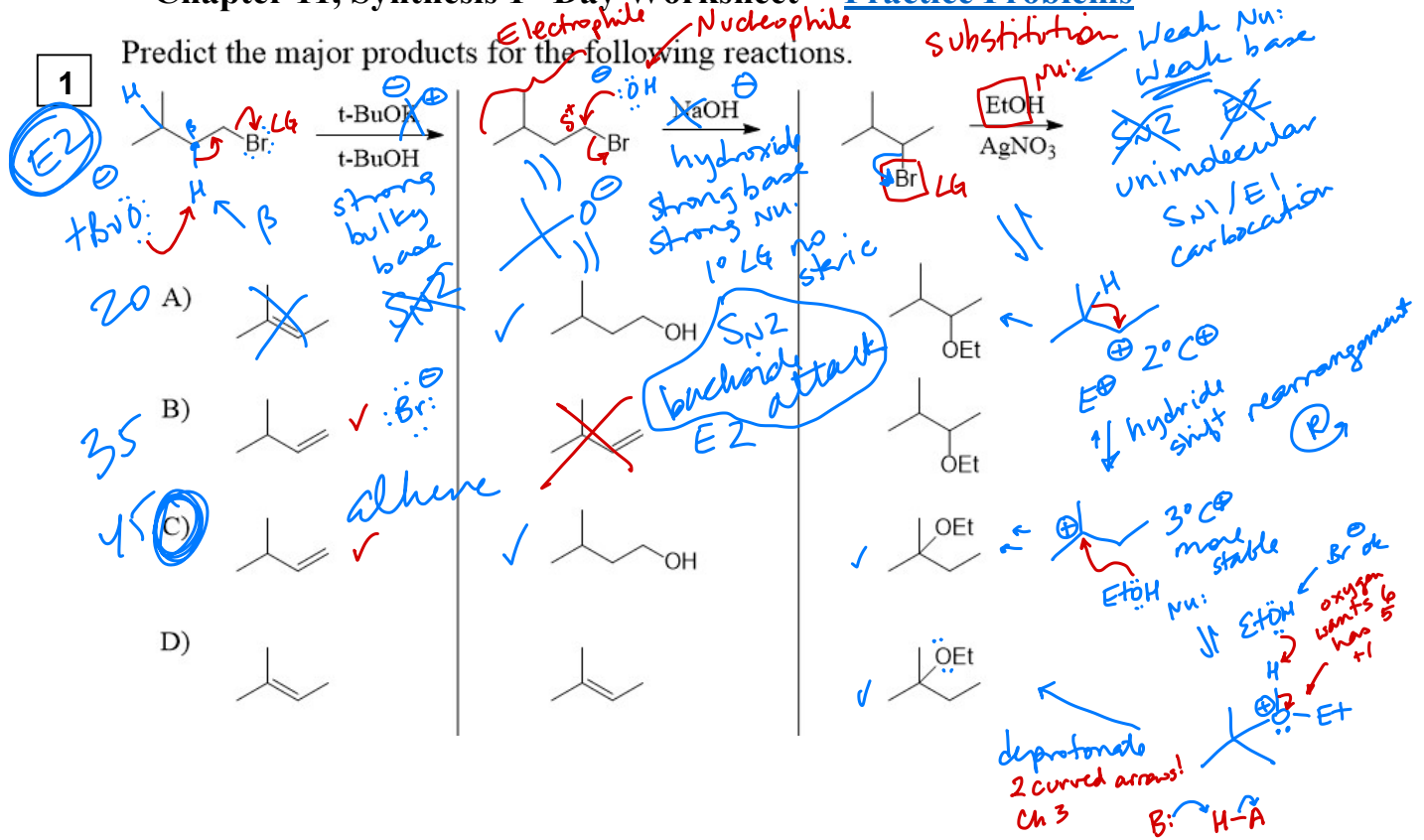


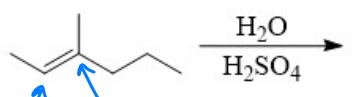
Dr. Laurie S. Starkey, Organic Chemistry II CHM 3150, Cal Poly Pomona
 Chapter 11, Synthesis 1st Day Worksheet – Practice Problems



Ch 8 - Addition Rxn Add H + OH

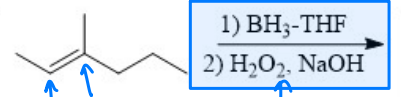
4 Predict the major products for the following reactions.

P.A.D.
90



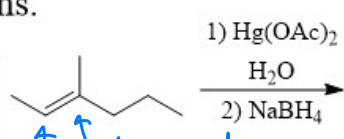
Markovnikov
H → H

- A) CC(C)(O)C(C)CC ✓
- B) CC(C)C(O)C(C)CC ✓
- C) CC(C)C(C)C(O)CC
- D) CC(C)C(C)C(C)CO



hydroboration-oxidation
ANTI-Mark
(racemic)
+ syn add.

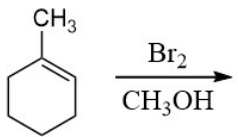
- A) CC(C)C(O)C(C)C ✓ (racemic)
- B) CC(C)C(C)C(O)C ✓ (racemic)
- C) CC(C)C(C)C(C)O (racemic)
- D) CC(C)C(C)C(O)C (racemic)



oxymercuration-demercuration
Mark

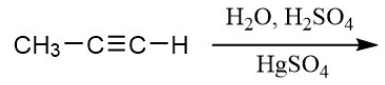
- A) CC(C)(O)C(C)CC ✓
- B) CC(C)C(O)C(C)CC
- C) CC(C)C(C)C(O)CC
- D) CC(C)C(C)C(C)CO

5 Predict the major product.



- A) CC1(Br)C(OC)CCCC1 (rac.)
- B) CC1(Br)C(OC)CCCC1 (rac.)
- C) CC1(Br)C(OC)CCCC1 (rac.)
- D) CC1(Br)C(OC)CCCC1 (rac.)
- E) CC1(Br)C(Br)CCCC1 (rac.)

6



- A) CC(O)C(O)C
- B) CC(O)C(O)C
- C) CC(=O)C
- D) CC(=O)C
- E) CC(O)C=C