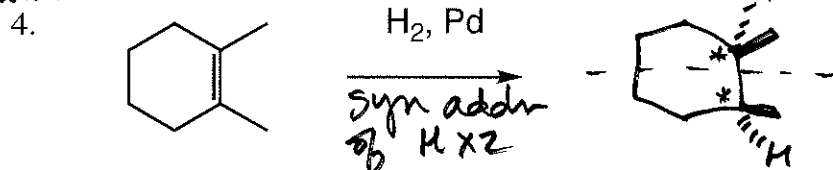
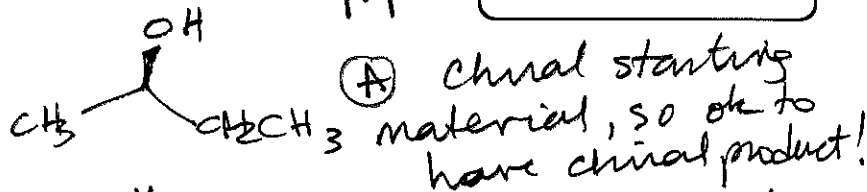
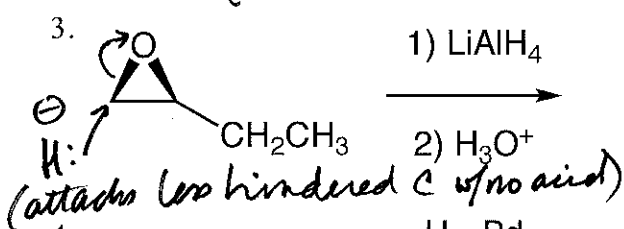
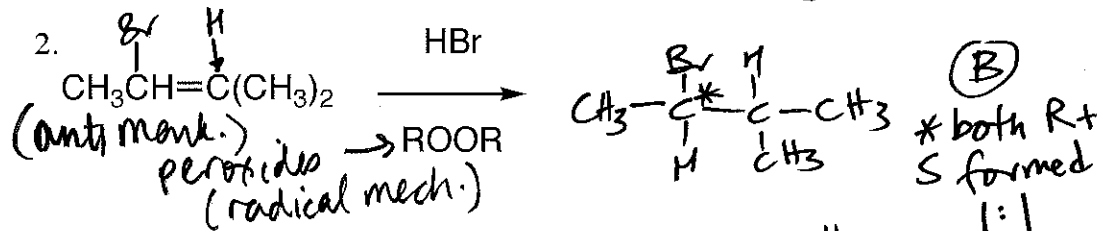
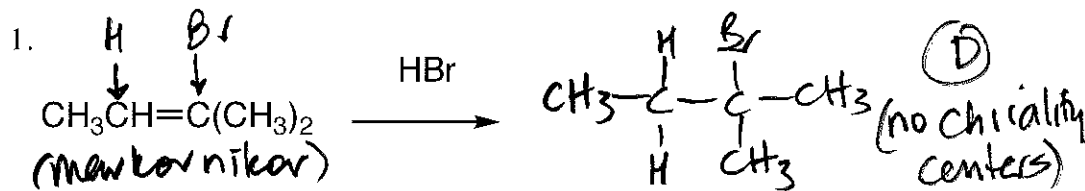
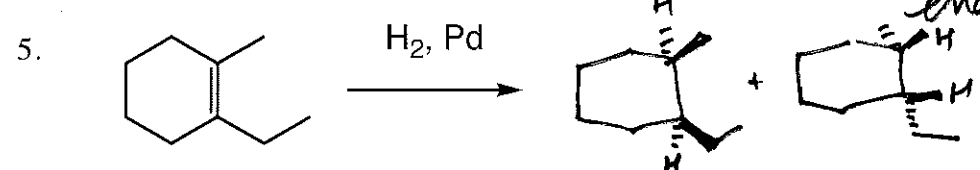


California State Polytechnic University, Pomona
 Organic Chemistry CHM 316, Dr. Laurie S. Starkey
 Review questions for ACS exam (see also R/S quiz on Blackboard)

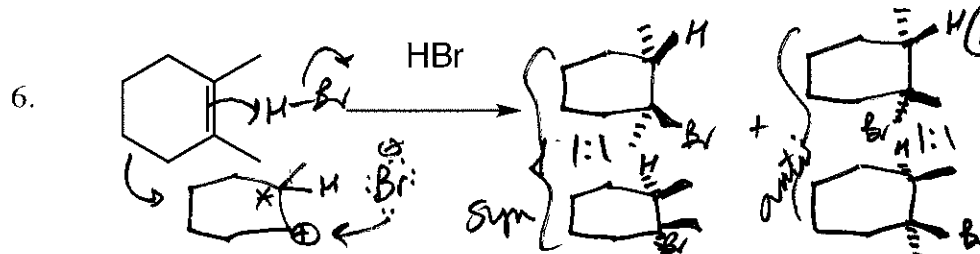
1-6 Predict the major product(s) and describe the stereochemistry of the product(s) using choices A-E.



(C) Two chirality centers but mirror plane of symmetry make it meso (+ achiral). No enantiomer exists!

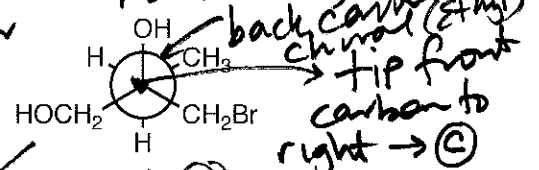


(B) Attach from top face or bottom face leads to different enantiomers



(E) Two-step mechanism results in mixed stereochemistry (both syn + anti addition is possible)

7. Which of the following is the enantiomer of the given compound?



A) $\text{HOCH}_2-\text{CH}(\text{OH})-\text{CH}_2\text{Br}$ (same)
 B) $\text{HOCH}_2-\text{CH}(\text{OH})-\text{CH}_2\text{Br}$ (rotated) (same)
 C) $\text{HOCH}_2-\text{CH}(\text{OH})-\text{CH}_2\text{Br}$ (same)
 D) $\text{HOCH}_2-\text{CH}(\text{OH})-\text{CH}_2\text{Br}$ (enantiomer) (swap 2 groups invert)

