

Organic Chemistry I

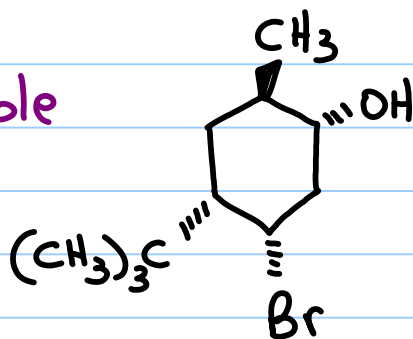
Practice Final Exam

(c) LEAH4SCI

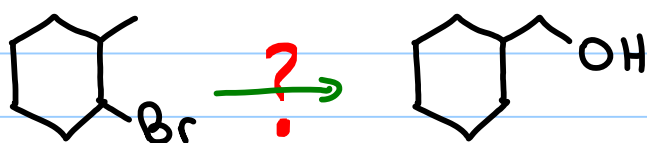
Exam Solutions

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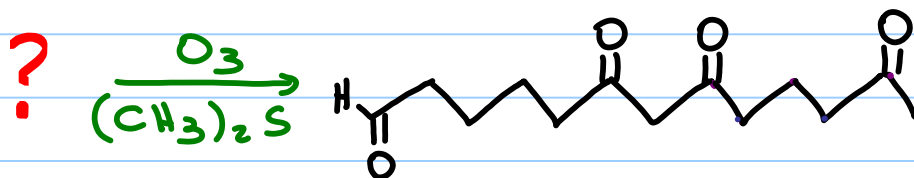
① Draw the most stable chair conformation



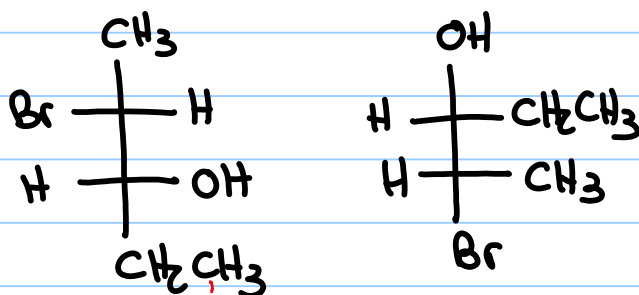
② Fill in the missing reagents to bring about this transformation:



③ Identify the starting molecule

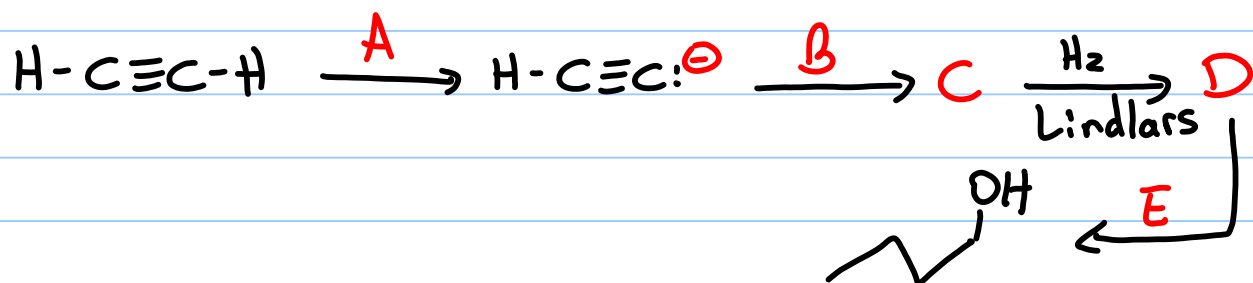


④ find the relationship between these Fischer Projections

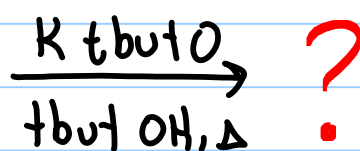
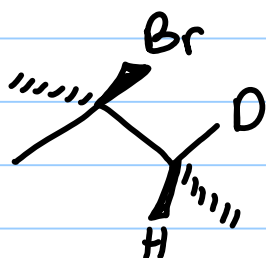


⑤ Draw all possible products for the monochlorination of 2-methylbutane
Hint: Don't forget chirality

⑥ Fill in any missing reagents + intermediates

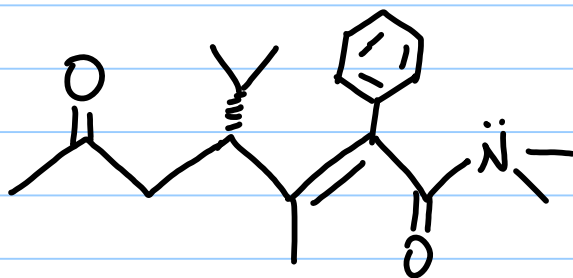


⑦ Identify the product of this reaction



Hint: tbutO
tert butoxide

⑧ Name the following compound. Be sure to account for stereochemistry

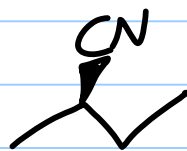
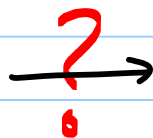
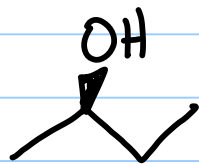


Hint: lookout for R/S
cis/trans/E/Z

⑨ Determine if this reaction favors reactants or products



⑩ Show how to bring about the following transformation



↑ retention

Hint S_N2 = inversion

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