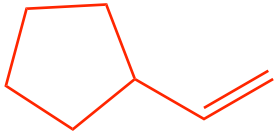
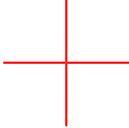
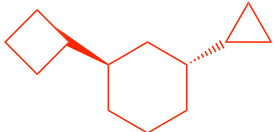
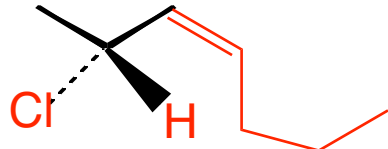
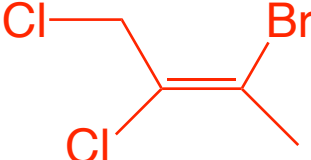


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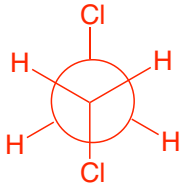
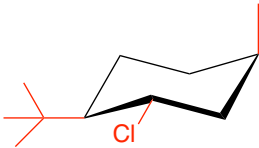
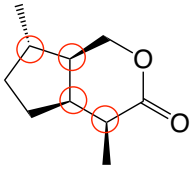
Print Last (Family) Name	First Name	Signature	ID Number (if known)	Leave Blank (Score)

Section I.A. page 2	1. 	2. 	3. 	4.  -2 pts wrong no stereochem
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Section I.A. p2	5. cis-decalin (-2 pts wrong or no stereochem)
page 3	6. (E,E)-6,10,14-trimethyl-1,5,9-pentadecatriene -2 pts wrong/no stereochem or each error
page 3	7. (Z)-6-bromo-7-methylnona-1,6-diene-3-yne -2 pts wrong/no stereochem or each error

Section I.A. page 3	8.  -2 pts wrong/no stereochem or each error	9. 	10. CHCl₃
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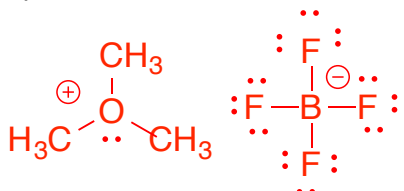
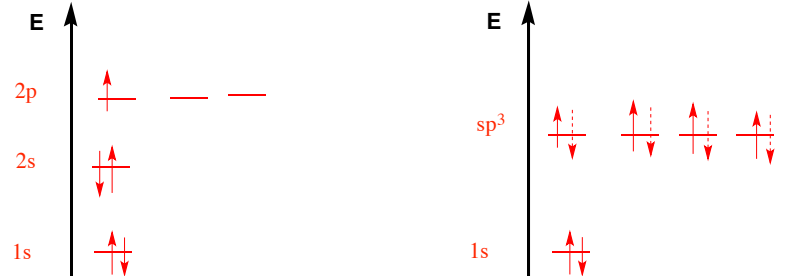
Section I.B. p4	11. structural	12. identical	13. identical	14. structural	15. identical
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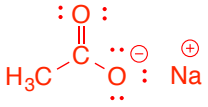
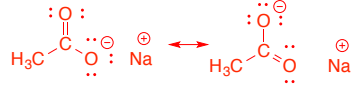
Section I.C. p5	16. 	17. 	18. 
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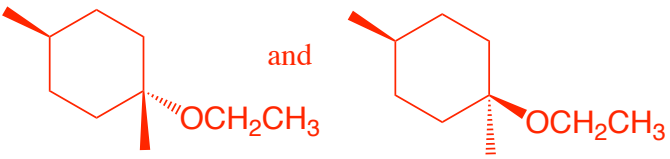
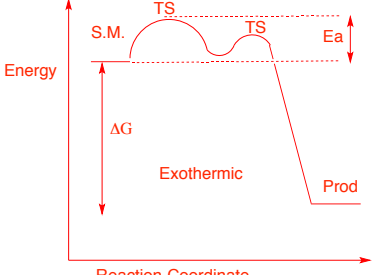
Section I.C. p5	19. four	20. three	21. ester	22 10	23. 16
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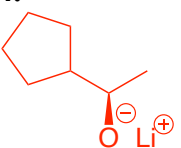
Section II.A p6	1. T	2. T	3. F	4. T	5. F	6. F	7. T	8. F	9. F	10. T
Section II.B p7	11. F	12. T	13. F	14. F	15. F	16. T	17. F	18. F	19. T	20. F

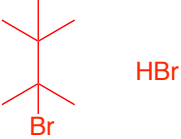
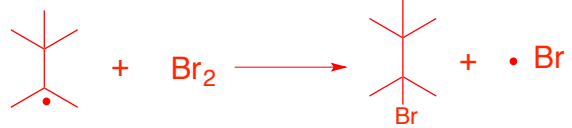
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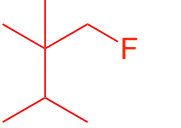
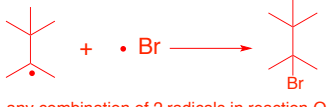
Section III.A p8	1. 	2. + 8 protons - 2 (1s electrons) - 2 lone pair electrons -3 (half 6 electrons shared) +1 charge on oxygen	3. + 5 protons - 2 (1s electrons) -4 (half 8 electrons shared) - 1 charge on boron
Section III.A p8	4. sp^3	5. 	

Section III.B p9	6. 	7. 	8. ketone OK carbonyl	9. 109 °	10. R	11. R
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Section IV.A p10	1.  both achiral - as is starting material	2. Sn1	3. 
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Section IV.A p10	4.  and CH₄
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Section IV.B p 11	5. 	6. 	7. 
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Section IV.B p 11	8. 	9.  any combination of 2 radicals in reaction OK
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