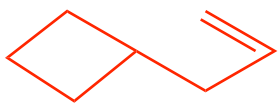
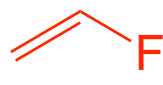
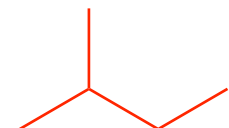
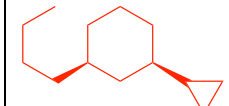
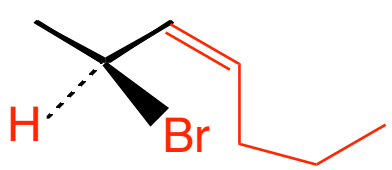
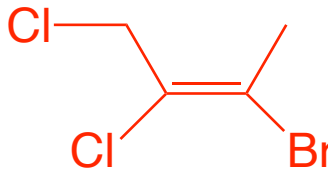


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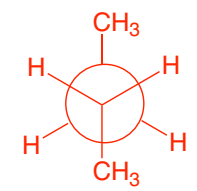
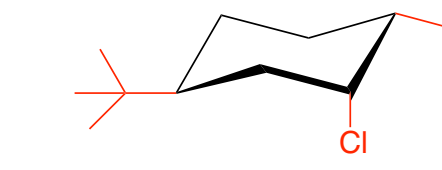
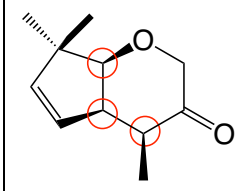
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Section I.A. page 2	1. 	2. 	3. 	4.  -2 pts wrong no stereochem
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Section I.A. page 3	5. cis-decalin (-2 pts wrong or no stereochem)
page 3	6. (all E)-7,11,15,15-tetramethyl-2,6,10,13-hexadecatetraene -2 pts wrong stereochem or each error
page 3	7. (Z)-7-chloro-6-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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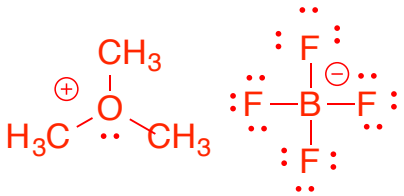
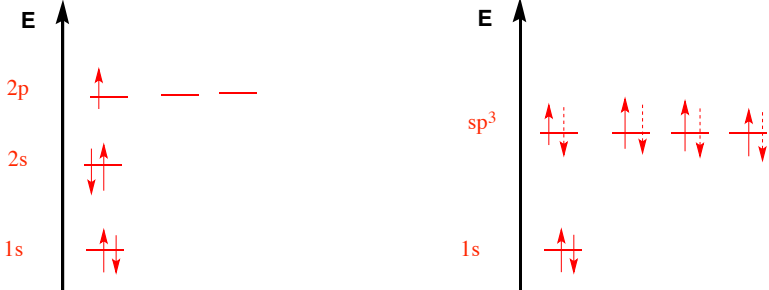
Section I.B. p4	11. enantiomers	12. identical	13. identical	14. structural	15. identical
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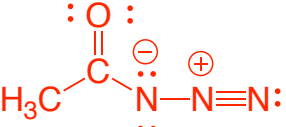
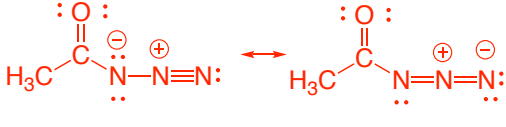
Section I.C. p5	16. 	17. 	18. 
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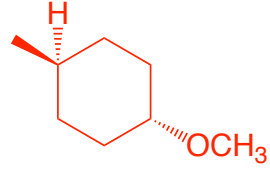
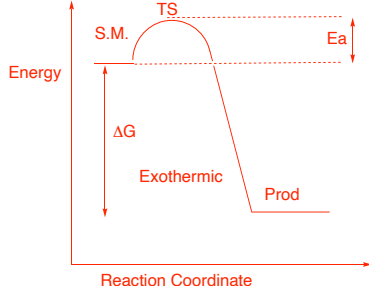
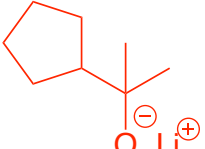
Section I.C. p5	19. three	20. four	21. ether	22. 11	23. 16
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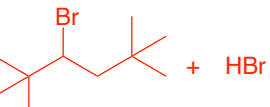
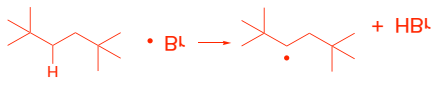
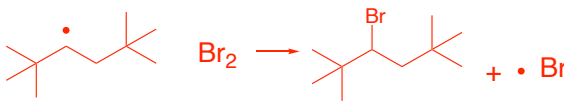
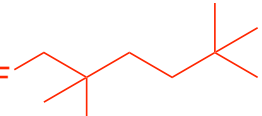
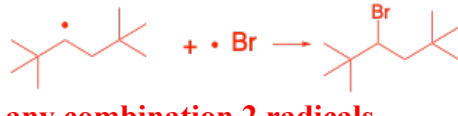
Section II.A p6	1. T	2. F	3. F	4. T	5. F	6. F	7. F	8. T	9. T	10. T
Section II.B p7	11. T	12. F	13. T	14. T	15. F	16. T	17. F	18. F	19. T	20. T

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

Section III.B p9	<p>6.</p> 	<p>7.</p> 	8. alcohol	9. 109°	10. R	11. S
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Section IV.A p10	<p>1.</p> 	<p>2.</p> <p>S_N2</p>	<p>3.</p> <p>Stereospecific - 2 pts</p> <p>Concerted - 2 pts</p>	<p>4.</p> 		
Section IV.A p10	<p>5.</p>  <p>and NH_3</p>					

Section IV.B p 11	<p>6.</p> 	<p>7.</p> 	<p>8.</p> 
Section IV.B p 11	<p>9.</p>  <p>10.</p>  <p>any combination 2 radicals</p>		

