**Academic Honesty Policy.** Academic honesty is strictly enforced on quizzes, exams, and other aspects of this course. Academic dishonesty will result in a failing grade in the class and a letter in the student's file. Activities constituting academic dishonesty include:

*Cheating*
- Copying from others during an examination.
- Communicating exam answers with other students during an examination.
- Offering another person's work as one's own.
- Taking an examination for another student or having someone take an examination for oneself.
- Tampering with an examination after it has been corrected, then returning it for more credit.
- Using unauthorized materials, prepared answers, written notes, or concealed information during an examination.

*Dishonest Conduct*
- Stealing or attempting to steal an examination or answer key from the instructor.
- Allowing another student to copy off of one's own work during a test.

*Collusion*
- Any student who knowingly or intentionally helps another student perform any of the above acts is subject to discipline for academic dishonesty.

I understand and will abide by this academic honesty policy: ____________________________ (signature)

1. Menthol is $(1R,2S,5R)-2$-isopropyl-5-methylcyclohexanol. It has a specific rotation $[\alpha]_{D}^{18}$ of $-50^\circ$, a melting point of 41-43° C, a boiling point of 212° C, and a pleasant peppermint taste and odor. What can you say about the specific rotation, melting point, boiling point, taste and odor of the enantiomer? (4 pts)

   specific rotation? __________________
   melting point? __________________
   boiling point? ___________________
   taste and odor? ________________________

2. How is each compound related to the simple sugar D-erythrose? Is it an enantiomer, diastereomer, or identical? (Smith, 5.56, 4 pts)

   a. ______________________
   b. ______________________
   c. ______________________
   d. ______________________

3. Draw the structure of the $R,R$ isomer of methylphenidate (Ritalin). (Smith, 5.47, 2 pts)