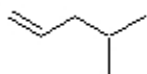


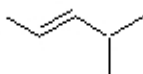
Name: \_\_\_\_\_

**Organic I Lecture**  
**Spring 2010**  
**Quiz #6**  
(10 points)

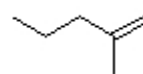
1. Which sequence ranks the following alkenes in order of increasing heat of hydrogenation? (3 points)



1

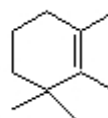
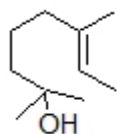


2

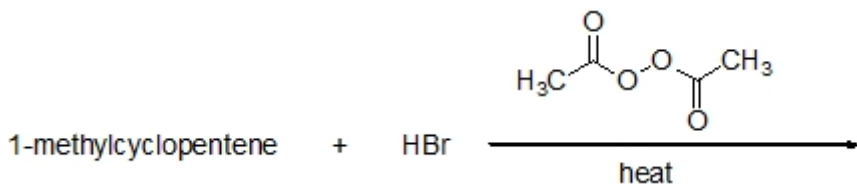


3

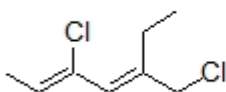
- a) 1<2<3    b) 2<3<1    c) 3<1<2    d) 3<2<1    e) 2<1<3    f) 1<3<2
2. Fill in the necessary reagent(s) to complete the reaction below. (2 points)



3. Draw a structure for the expected product of the following reaction. (2 points)



4. Identify the correct name for the following structure. (3 points)



- a) (2E, 4Z) 1,4-dichloro-2-ethylhexa-2,4-diene  
b) (2E, 4Z) 3-chloro-5-chloromethylhepta-2,4-diene  
c) (3Z, 5E) 5-chloro-3-chloromethylhepta-3,5-diene  
d) (2Z, 4E) 1,4-dichloro-2-ethylhexa-2,4-diene  
e) (2Z, 4E) 3-chloro-5-chloromethylhepta-2,4-diene