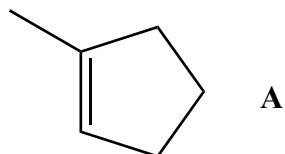


Alkanes, Alkenes and Alkynes Tutorial Problems
Lectures 7 and 8

1. Give the structure and stereochemistry (if any) of the product formed in the reactions of each of the following reagents with cyclopentene, **A**.



- (a) aqueous KMnO_4
- (b) *meta*-Chloroperbenzoic acid
- (c) Diborane followed by aqueous sodium peroxide
- (d) O_3 followed by zinc and acetic acid

2. Give the structures of the products, **B - F**, from the following reactions:

