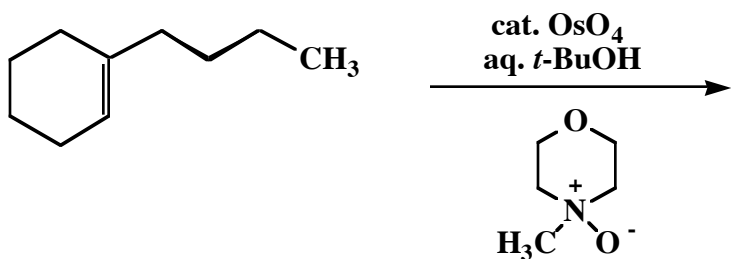


Week 10 Group Questions

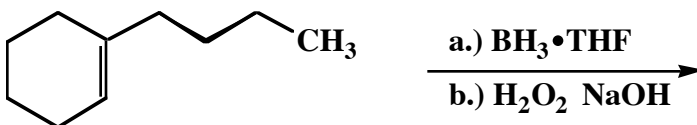
1. For each of the following questions, draw the expected major organic product.

If relevant, clearly specify absolute and/or relative stereochemistry.

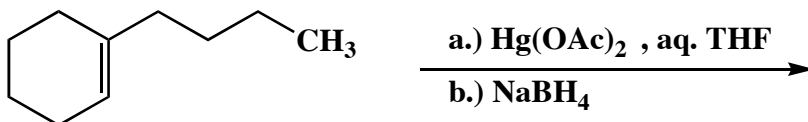
a.



b.



c.



2. Explain clearly why anhydrous hydrogen bromide adds to 1-pentene to afford a racemic mixture of 2-bromopentane, and not 1-bromopentane.

3. Draw the mechanism of the following reaction, using the curved-arrow notation to indicate the reorganization of electron density. Show all intermediates, unshared electrons, formal charges and countercharges where appropriate. Describe clearly why the observed regiochemistry is as shown. Also show why a racemic mixture is obtained.

