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# Organic Chemistry

## Chapter 7

by

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Activity 7

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# Activity 7

## QUESTION 1

Read the following statements carefully and mark (  $\checkmark$  ) for the correct statement and make cross (X) for the false one?

- (a) Alkynes have  $3\pi$  bonds. (      )
- (b) Alkenes are electron rich and are nucleophiles. (      )
- (c) Epoxides are ethers having the oxygen atom in a four-membered ring. (      )
- (d) In unsymmetrical alkenes, H bonds to the less substituted carbon to form the more stable carbocation. (      )
- (e) An epoxide is formed by reaction of an alkene with peroxyacid. (      )

# Activity 7

## QUESTION 2

Write the complete, detailed mechanism for the chlorination of methane, specifying the three stages of the reaction.

## QUESTION 3

What is the product of bromination with cyclohexene and also write the complete mechanism with electron pushing arrows.

