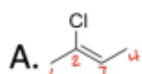
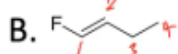


@chem3phys

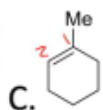
Q1. Name each of the following structures by the IUPAC system?



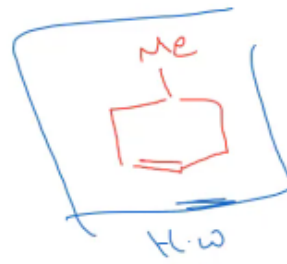
2-chloro-2-butene



1-fluoro-1-butene

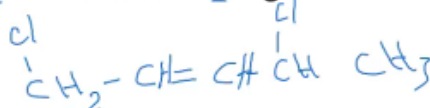


1-methylcyclohexene

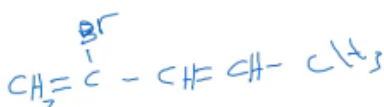
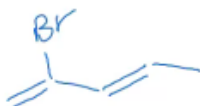


Q2. Write the structural formula for the following?

A. 1,4-dichloro-2-pentene



B. 2-bromo-1,3-pentadiene

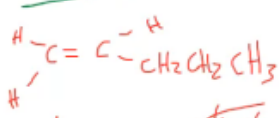


C. vinyl cyclohexane



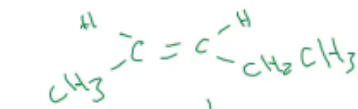
Q3. Which of the following compounds can exist as cis-trans isomers? Draw their structures?

1-pentene

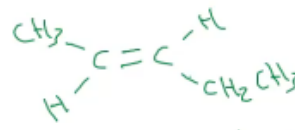


not cis or trans

2-pentene



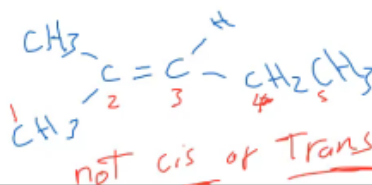
cis-2-pentene



Trans-2-pentene

A. pentene

B. 2-methyl-2-pentene

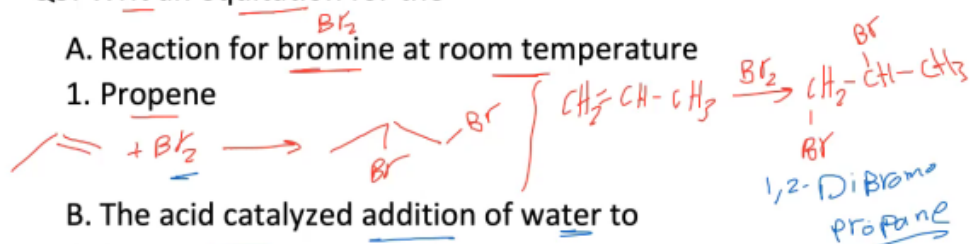


Q3. Write an equation for the

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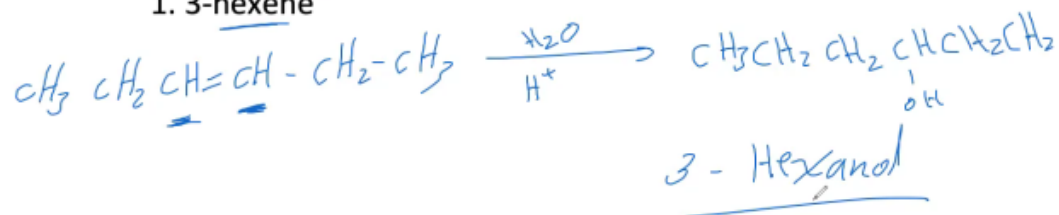
A. Reaction for bromine at room temperature

1. Propene



B. The acid catalyzed addition of water to

1. 3-hexene



Q4. For the addition of HBr to 3-methyl-1-butene, two products were observed. Show the reaction mechanism to explain the formation of both products.

