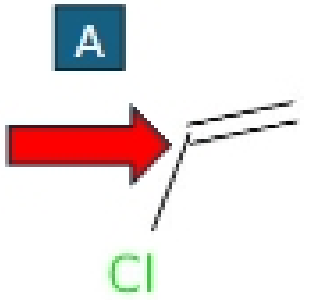
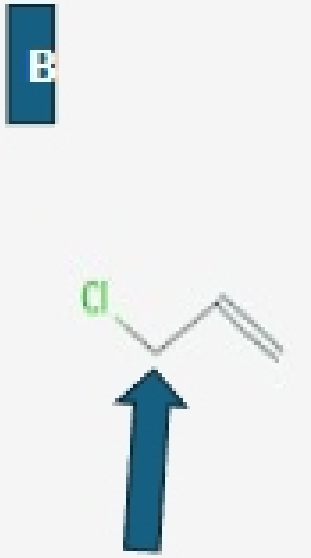
Orgo 1

Exam 6

Study Guide

- ID A
- Vinyl chloride
- ID B
- Allyl chloride
- What is the vinyl position?
- is one of the two sp^2-hybridized carbons directly participating in the double bond.
- What is the allyl position?
- Carbon atom that is adjacent to a double bond (C=C) in an alkene.
- ID Position of carbon with blue arrow
- Allyl position
- ID Position of carbon with red arrow.
- Vinyl position





Study Guide

- What are characteristics of the diels-alder reactions?
- Stereochemistry of the dienophile is maintained
- What are characteristics of a dienophile?(2)
- Has at least 1 EWG
- is more reactive if there are electron withdrawing groups removing electrons from the p-bond
- What is the position of the diene for it to react?
- s-cis
- What is the effect of an EWG in a system?
- Withdraws electron density from the double bond□ needs electrons
- In a diene, when it reacts with the dienophile, what position does the outside group end in?
- Wedge
- In a diene, when it reacts with the dienophile, what position does the inside group end in?
- Back□ dotted
- In a dienophile, when it reacts with the diene, what position does the inside group end in?
- Back□ dotted
- In a dienophile, when it reacts with the diene, what position does the outside group end in?
- Wedge
- In a synthesis reaction, if the cyclohexene is the synthetic target, what should we consider to get to the target?
- Diels-Alder reaction