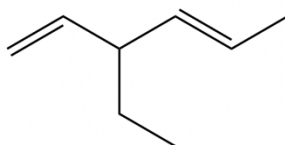


CONCEPT: NAMING DIENES AND TRIENES

- **Dienes:** possess __ C–C double bonds.
- **Trienes:** possess __ C–C double bonds.
- Set of rules for naming dienes and trienes is very similar to alkanes.
 - Use suffix -diene or -triene.

location - substituent - location - parent - modifier

EXAMPLE: Determine systematic name of the following alkene.



STEP 1: Find the longest carbon chain (parent chain) containing all the _____ bonds.

- Assign name according to alkane prefixes.
- Replace _____ with -diene or -triene.

STEP 2: Number the chain so that double bonds get the _____ set of numbers.

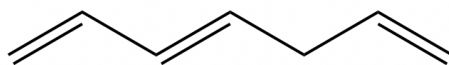
- Assign the lowest numbered C of each double bond as its location.

STEP 3: Assign name and location to all the substituents (if any).

STEP 4: Use commas to separate numbers from numbers and dashes to separate letters from numbers.

- Letters are not separated from letters.

PRACTICE: Provide systematic name of following alkene.



- a) 1,3,6-heptatriene
- b) 1,4,6-heptatriene
- c) 2,4,6-heptatriene
- d) 1,3,5-heptadiene