CONCEPT: NAMING ALKYNES

• Recall: Alkynes possess a C—C _____ bond.

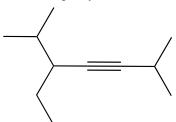
• Set of rules for naming alkynes are very similar to alkenes.

□ Modify ending from -ane to _____.

□ Alkynes do not possess _____ or ____ isomers.

location-substituent-location-parent-modifier

EXAMPLE: Determine systematic name of the following alkyne.



STEP 1: Find the longest carbon chain (parent chain) and assign name according to the prefixes and modifier.

- □ Parent chain should include a _____ bond and have ____ number of carbons.
- □ If a tie between longest chains, choose chain with more substituents.
- **STEP 2:** Assign name to all the substituents.
- **STEP 3:** Start numbering the chain from the end closest to the _____ bond.
 - □ Assign location to _____ triple bonded carbon.
- **STEP 4-6:** Repeat from previous naming topic.

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PRACTICE: Give a systematic name for this molecule.

PRACTICE: Draw a structure for 4-ethyl-7-phenyl-2-heptyne.