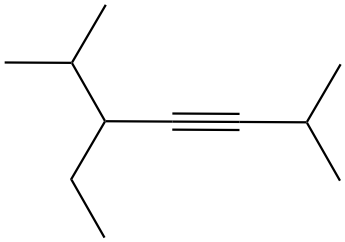
CONCEPT: NAMING ALKYNES

- **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.

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.

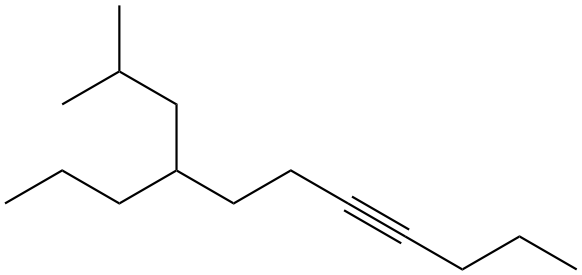
STEP 3: Start numbering the chain from the end closest to the _____ bond.

- □ Assign location to _____ triple bonded carbon.

STEP 4-6: Repeat from previous naming topic.

CONCEPT: NAMING ALKYNES

PRACTICE: Give a systematic name for this molecule.



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