

THE TRIPLE BOND GETS THE NUMBER

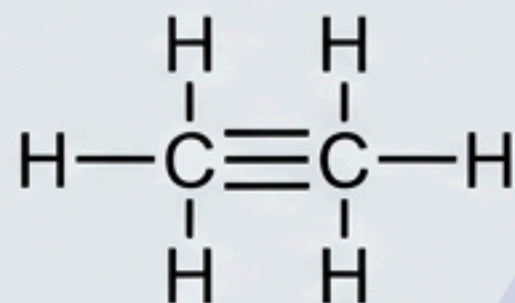
IUPAC Nomenclature & Isomerism of Alkynes (Concept 14 — 9.4.1)



The Naming Rule: ane $\rightarrow$ yne

- Replace the -ane suffix of the corresponding alkane with **-yne**.
- For $n > 3$, the locant (position) of the triple bond must be indicated.

2 Carbons



Eth**yne**

3 Carbons



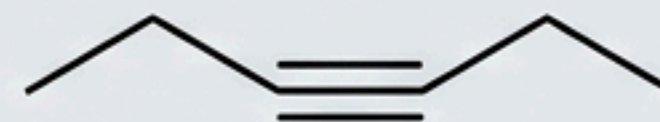
Prop**yne**

4 Carbons



But-**1**-yne

4 Carbons



But-**2**-yne



**You've Learned the Theory.
Let's Test Them Now.**

$$E=mc^2$$



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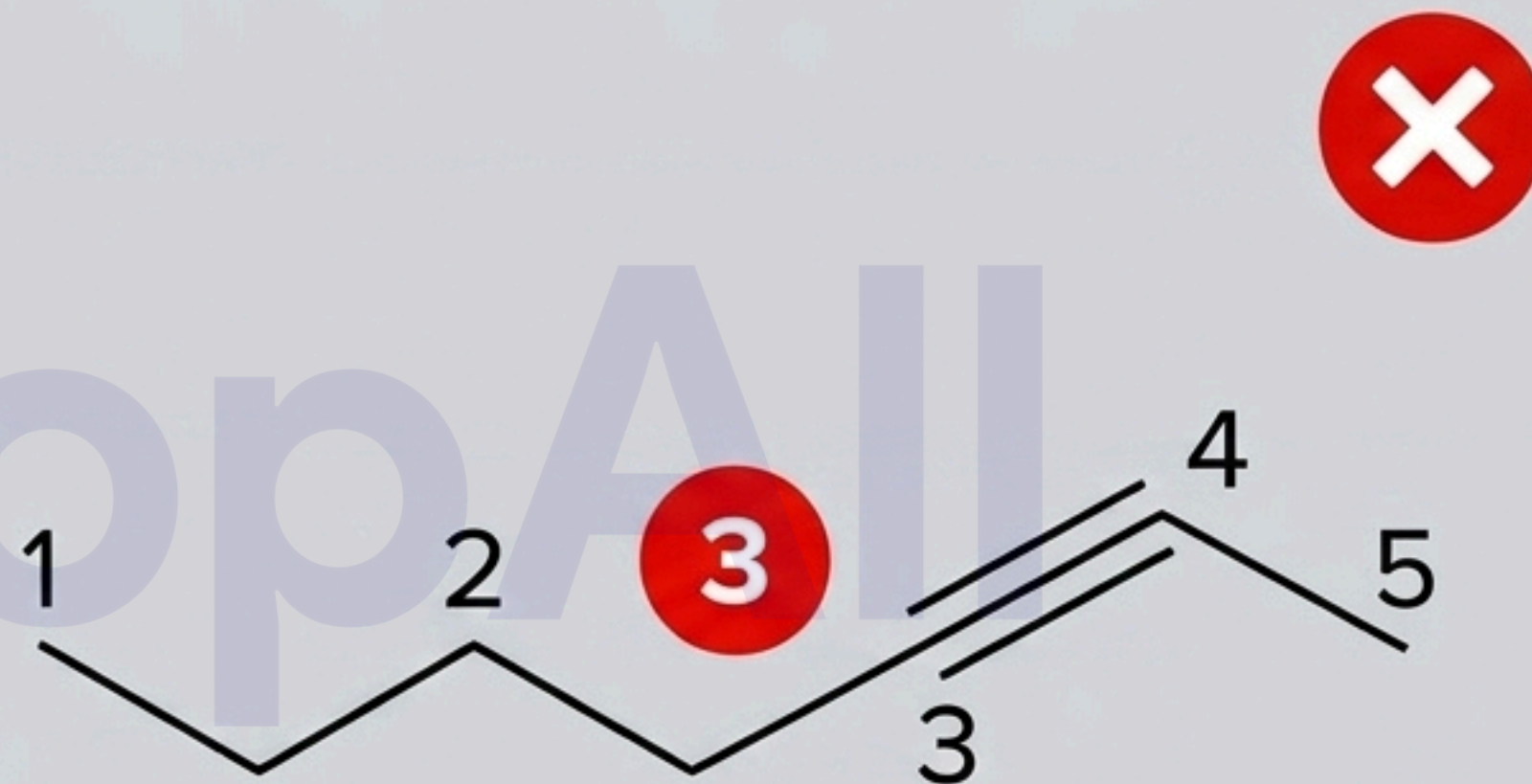
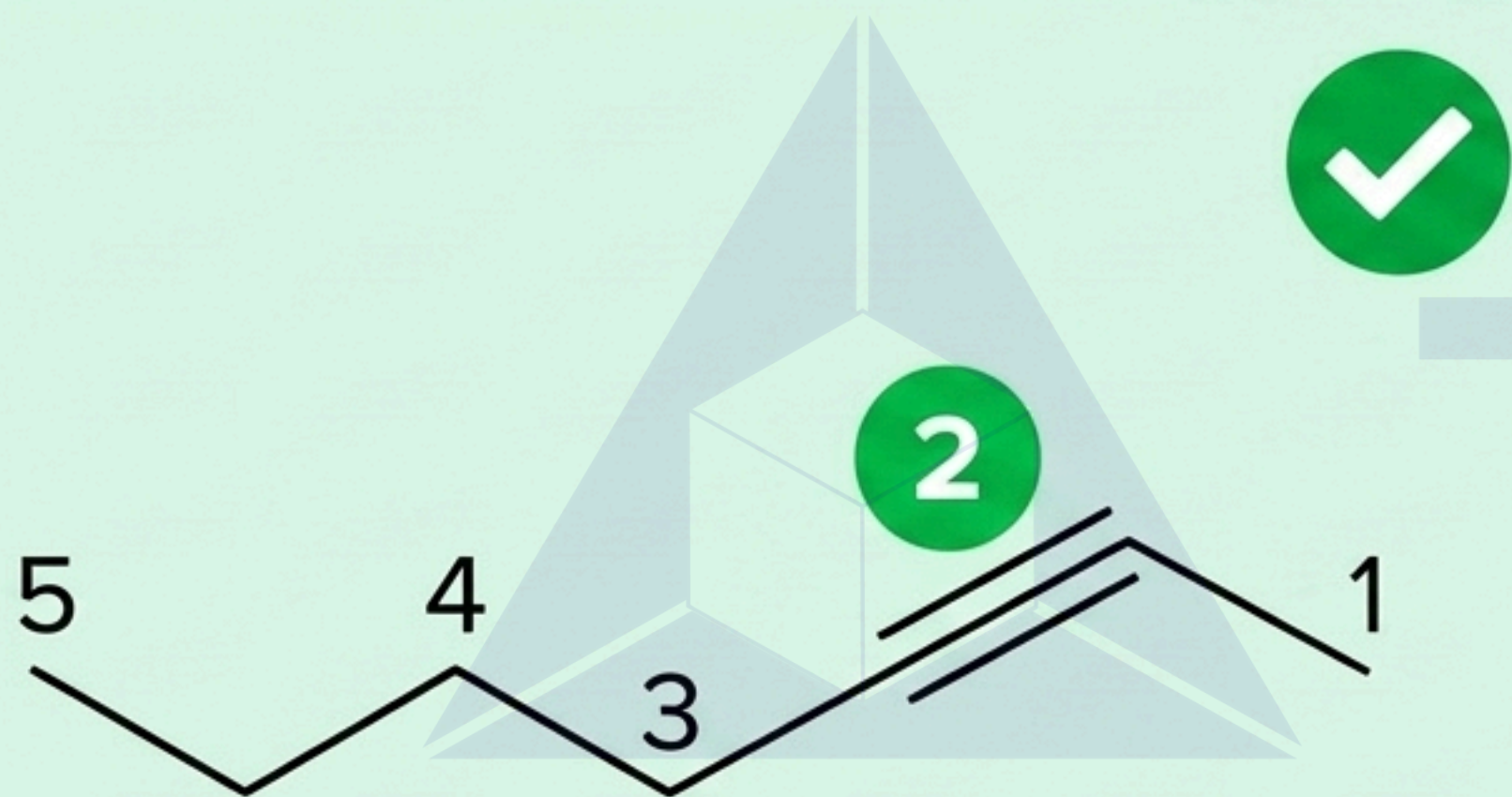
Key Highlights

- » Free Study Material, Videos & Infographics
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Numbering: Seek the Lowest Locant

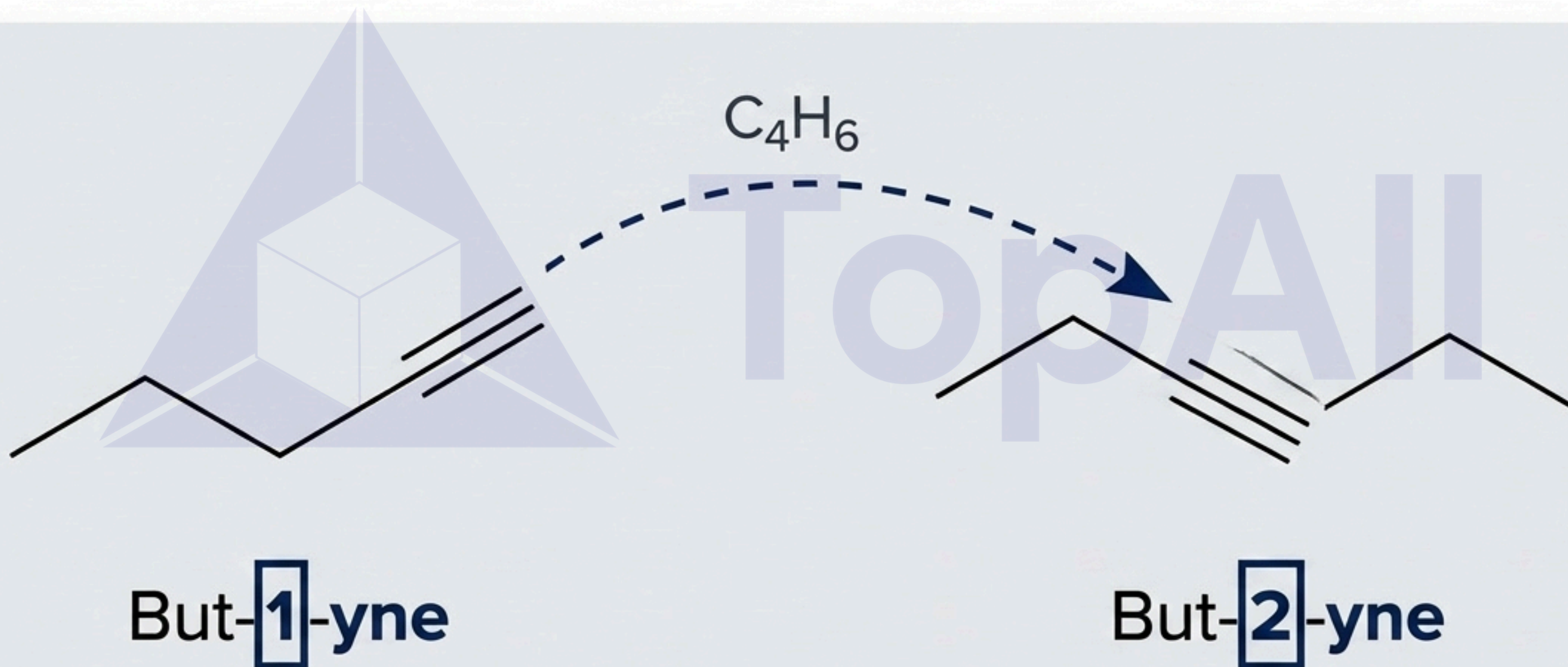
Always number the parent carbon chain from the end that gives the triple bond the **lowest** possible number.



Always choose the end nearer to the $\text{C}\equiv\text{C}$ bond.

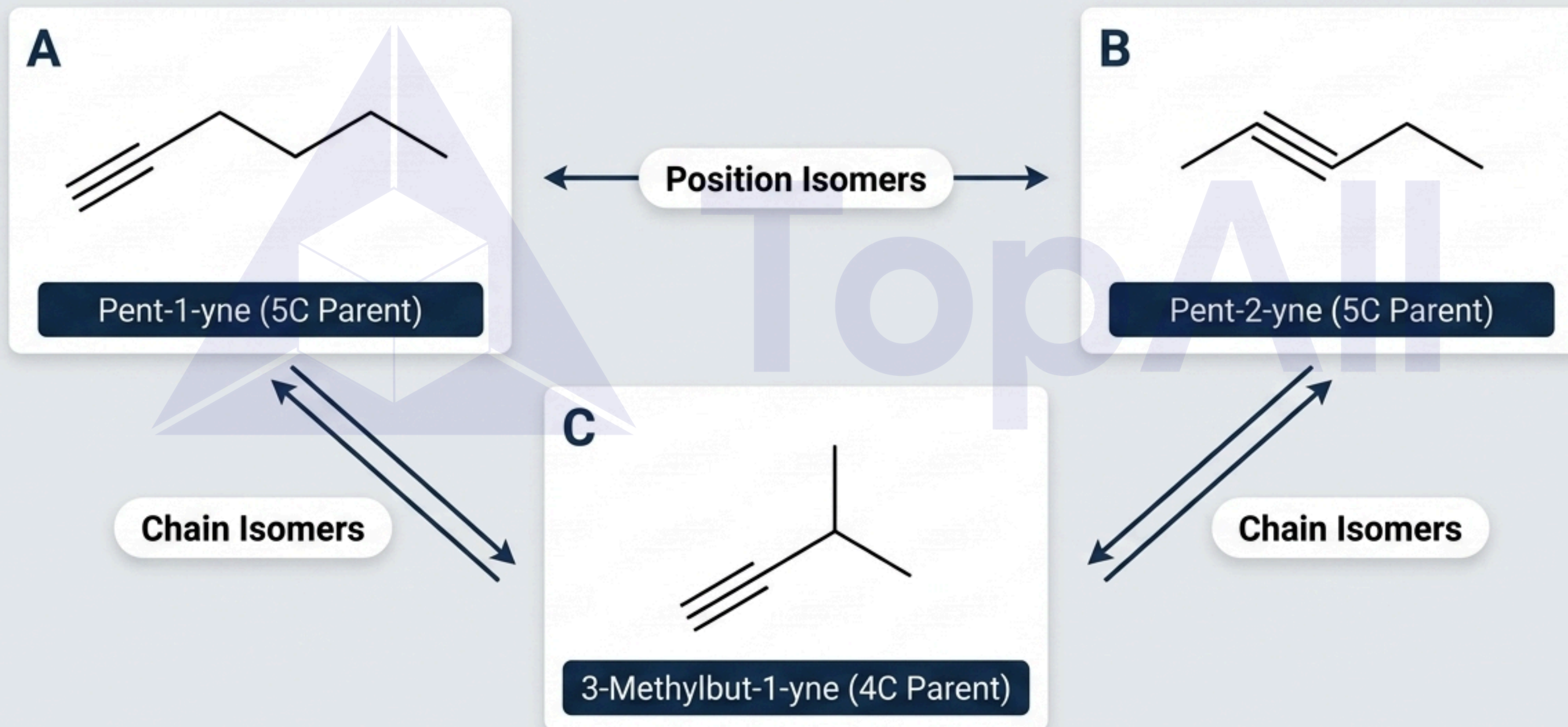
Position Isomerism: Moving the Triple Bond

Isomers that share the identical carbon skeleton but differ entirely in the **locant position** of the multiple bond.



Chain Isomerism: Altering the Skeleton

Isomers sharing the same molecular formula (C_5H_8) but differing in the arrangement of the parent carbon chain (straight vs. branched).

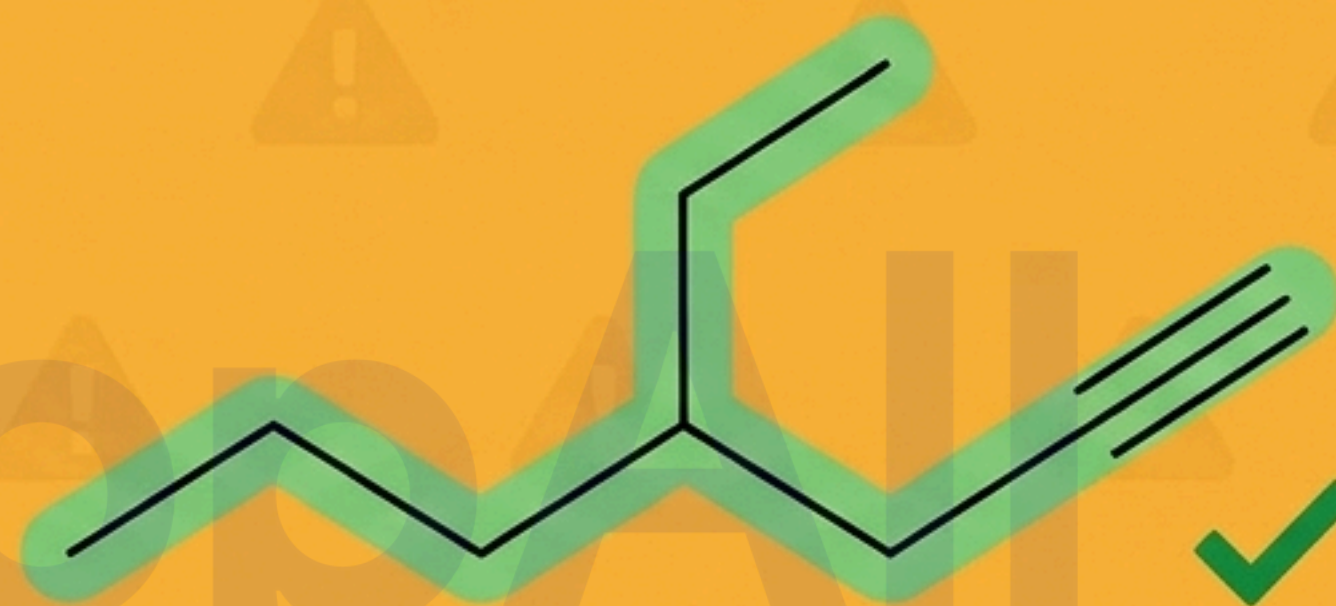


JEE Trap: The Parent Chain Illusion

Students often blindly select the longest continuous carbon chain, ignoring the multiple bond. The parent chain **MUST** contain the $\text{C}\equiv\text{C}$ bond, even if a longer continuous chain exists.



Longest Chain (**Incorrect**)



Includes $\text{C}\equiv\text{C}$ (**Correct**)

Key Takeaways

1. Alkane $\rightarrow$ Alkyne
(-ane to -yne)
2. Number from the end nearest the $\text{C}\equiv\text{C}$
3. The parent chain **MUST contain** the $\text{C}\equiv\text{C}$ bond



You've Learned the Theory.

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Practice the moment you finish studying
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