

STRUCTURE PROOF

1st time: TA models how to do a simple problem

2nd time: TA scaffold with OBS/DEDN. method

3rd time: TA fades

Compound **A**, C_6H_{10} , is optically active. **A** reacts with H_2 in the presence of PtO_2 catalyst to give a new compound **B**, C_6H_{12} . **B** is optically inactive. The bp, NMR, and IR spectra of **B** are identical to those of methylcyclopentane. What is the structure of **A**? Explain why your structure is uniquely compatible with the observations. Carefully outline your logic. Not just about the answer. About the cognitive process.

OBSERVATION

- 1.
 - 2.
- etc.

DEDUCTION

- 1.
 - 2.
- etc.