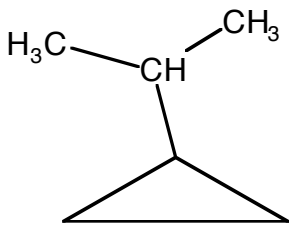
Problem 48, Chemistry 301X - 2006

You drew compound **1** on the last hour test, and probably used it (correctly) as an isomer that would show four signals in the ^{13}C NMR spectrum.

Good. Now explain why compound **2** shows five signals in the ^{13}C NMR spectrum.

Tough problem.

Hint: use Newman projections. Look from the isopropyl group toward the ring.



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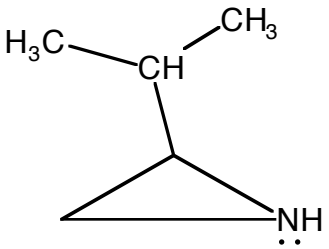

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