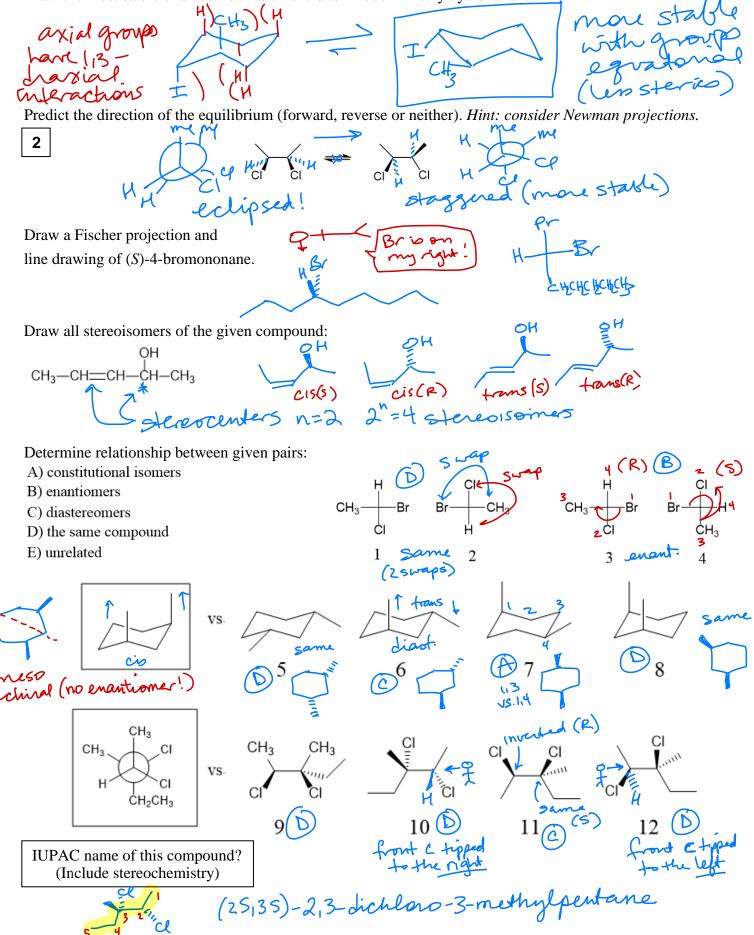
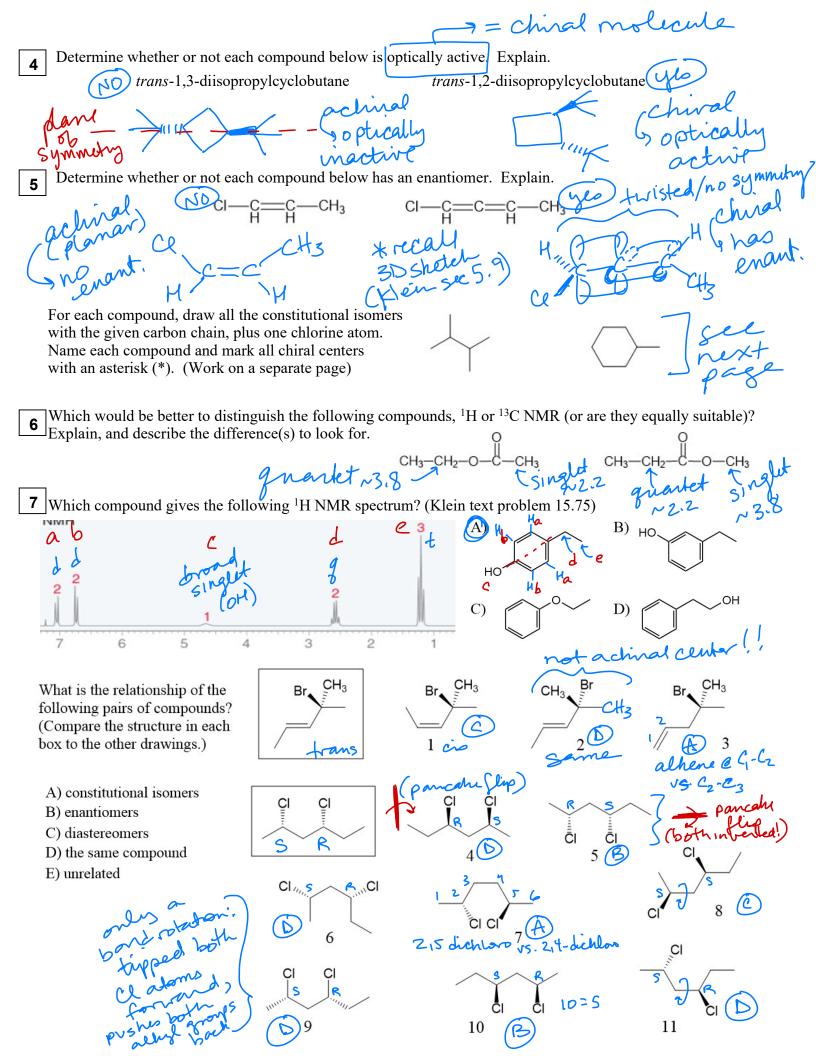
## Dr. Laurie S. Starkey, CHM 3140 Organic Chemistry I, Cal Poly Pomona Exam II Review – <u>Practice Problems</u>

Draw the most stable chair conformation of *trans*-1-iodo-2-methylcyclohexane.

1





only 2 unique positions (attach Clea ~ b) center) A 6 6 1-chloro-2, 3-dimethylbutane ce 1/2 3 (no chinal centers) 2-chloro-2,3- dimethylbutane a de fire unique positions 6 c 45 constitutional isomers (a) 2 7 Ce - 5 Ce - 5 1-chloro-4-mothylcyclohexane (no chirad centers) 1-chloro-3-methylcyclohexane (2 chiral centers) Os the 1-chloro-z-methylcyclohexane (2 chinal centers) 1-chloro-1-methylcyclohexane (no chinal centers) () X4 (chloromethyl) cyclohexane (no chinal centers) e d t note: carbon in ring with attached Cl is #1 bicause chlore comes bifore methyl alphabetically