

Problem of the Day 18

Section 5.3

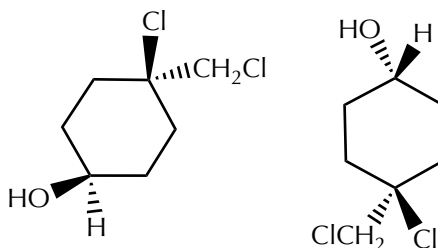
Question 5.12 (c) and (h)

None of the structures in Question 5.12 (c) and (h) are chiral. Is it possible to create structural isomers of these compounds that retain the 6-membered and 4-membered rings, respectively, and create chiral molecules with only a single stereocenter, too? If so, create one; if not, tell why not.

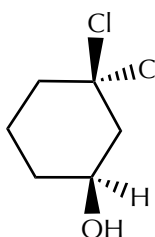
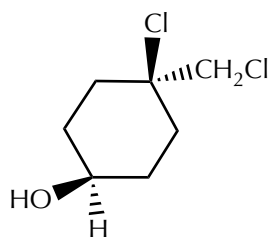
Original questions

(c)

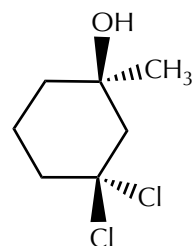
identical	<input type="text"/>	<input type="text"/>	enantiomers
stereoisomers	<input type="text"/>	<input type="text"/>	diastereomers
structural isomers	<input type="text"/>	<input type="text"/>	not applicable
different formulas	<input type="text"/>	A B	optically active



POD:



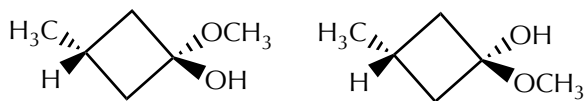
note that doing this does not work because two stereocenters exist



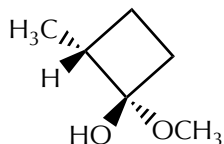
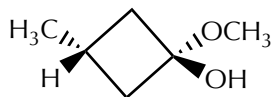
satisfies the conditions;
there are others

(h)

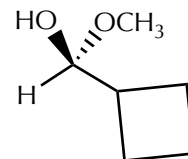
identical	<input type="text"/>	<input type="text"/>	enantiomers
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different formulas	<input type="text"/>	A B	optically active



POD:



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satisfies the conditions;
there may be others