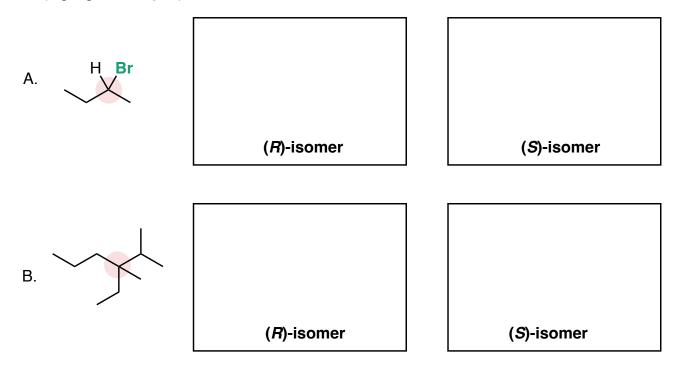
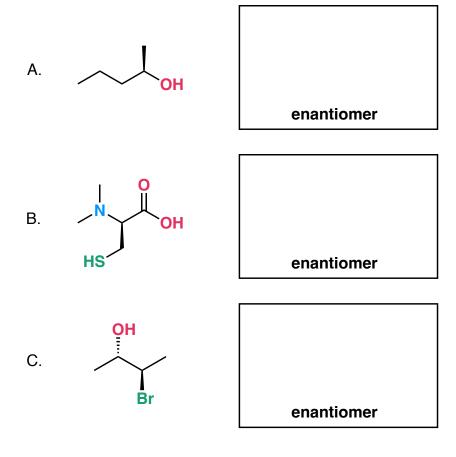
Drawing Chiral Molecules and Defining Isomeric Relationships

1. **Draw the (R) and (S) enantiomers** of each molecule below, each containing only one chiral center (highlighted for you)

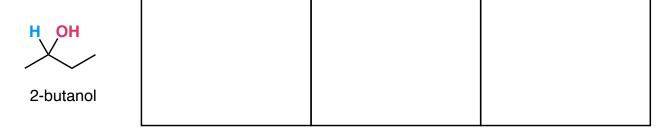


2. Draw the enantiomer of each chiral molecule below.



3. Select all of the molecules below that are (R)-2-bromohexane.

4. Draw three different orientations of (S)-2-butanol



5. Use the flowchart to determine the relationship between the pairs of molecules below.

Δ	

enantiomers

☐ diastereomers	;
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enantiomers

٦	diastereomers
	diastereomers

enantiomers

D.

enantiomers

\square diastereomers

E.

enantiomers

F.

enantiomers

	diastereomers
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$$\square$$
 conformers