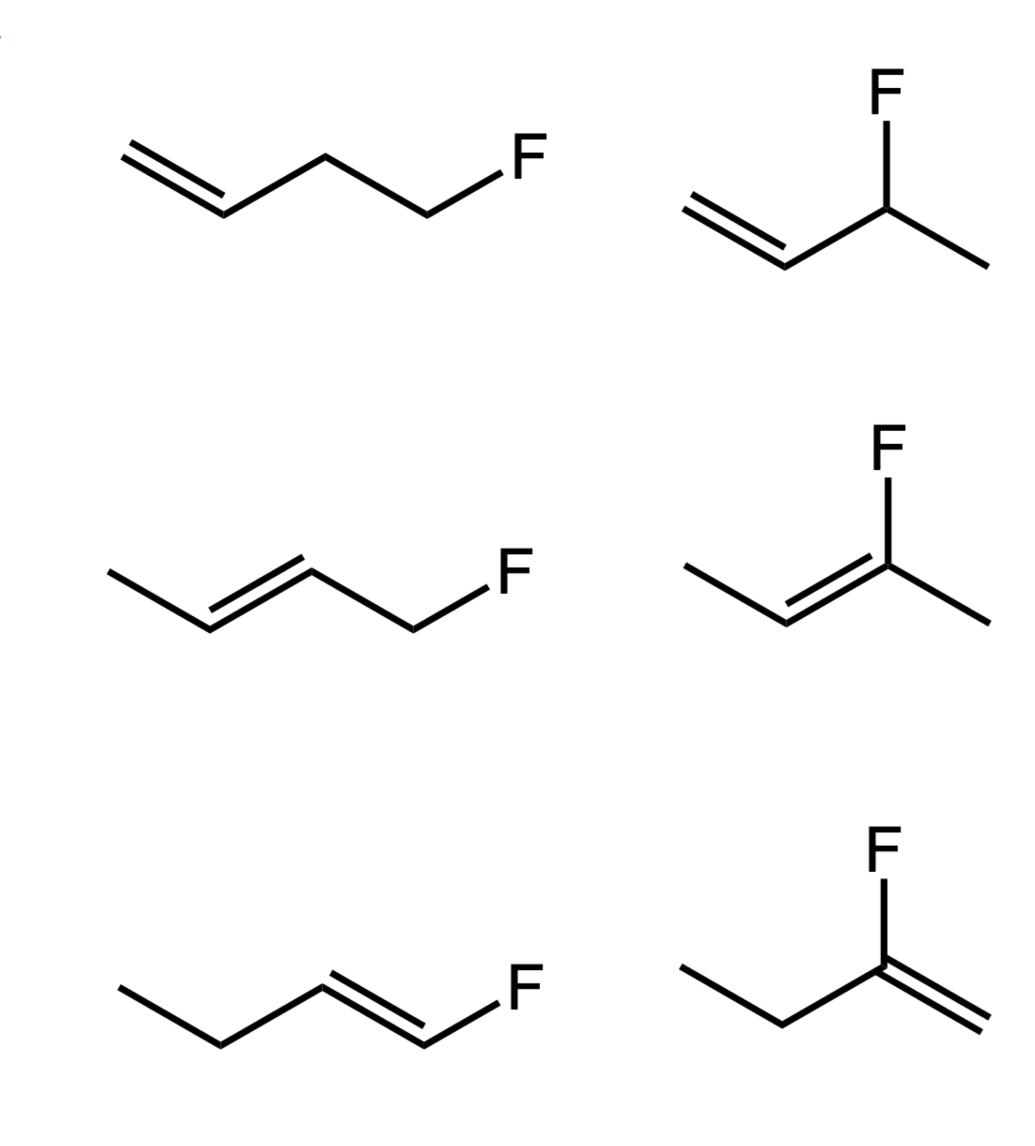
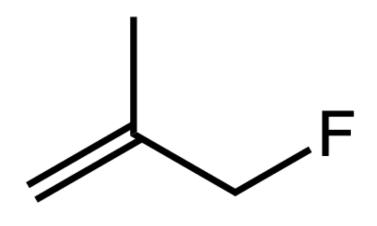
CONSTITUTIONAL, GEOMETRIC, AND STEREO ISOMERS

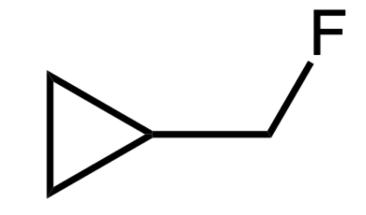
DR. MIOY T. HUYNH YALE UNIVERSITY CHEMISTRY 165B SPRING 2019 WWW.MIOY.ORG/CHEM165

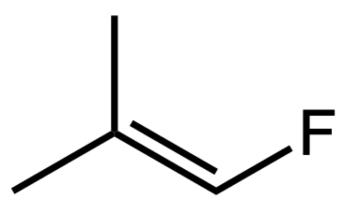
Draw and name the constitutional isomers for C_4H_7F .

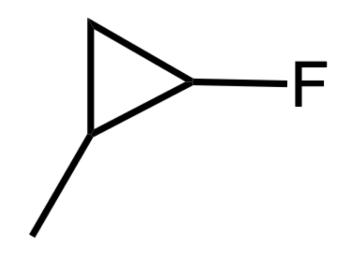
- answer -

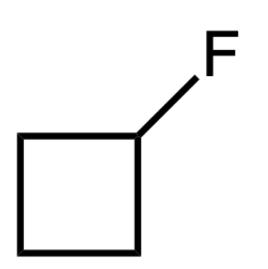


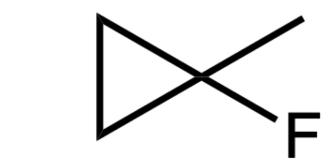










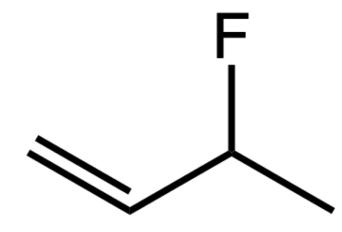


Draw and name the constitutional isomers for C_4H_7F .

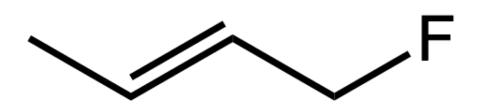
- answer -



4-fluorobut-1-ene

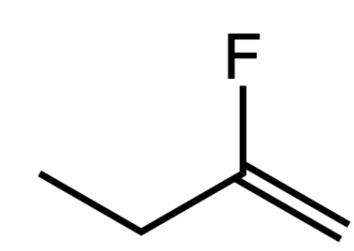


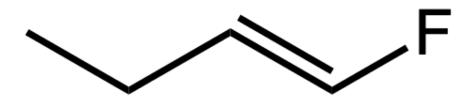
3-fluorobut-1-ene



1-fluorobut-2-ene

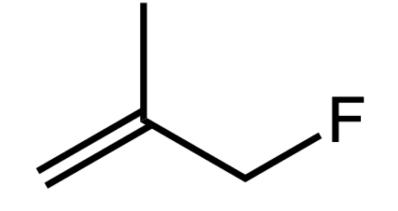
2-fluorobut-2-ene



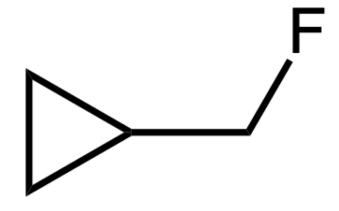


1-fluorobut-1-ene

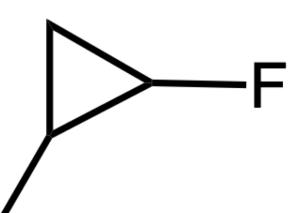
2-fluorobut-1-ene



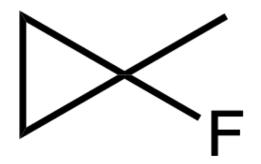
ne 3-fluoro-2-methylprop-1-ene



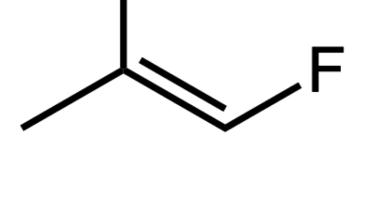
1-(fluoromethyl) cyclopropane



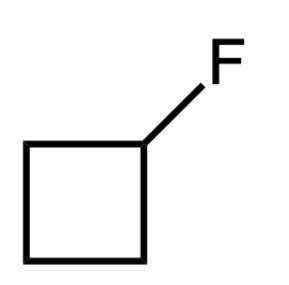
1-fluoro-2-methy lcyclopropane



1-fluoro-1-methyl cyclopropane



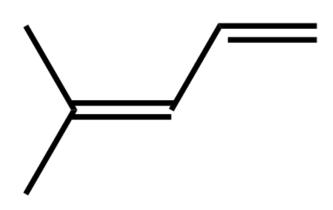
ne 1-fluoro-2-methylprop-1-ene

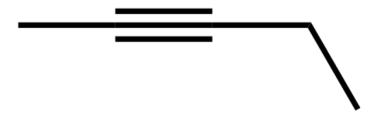


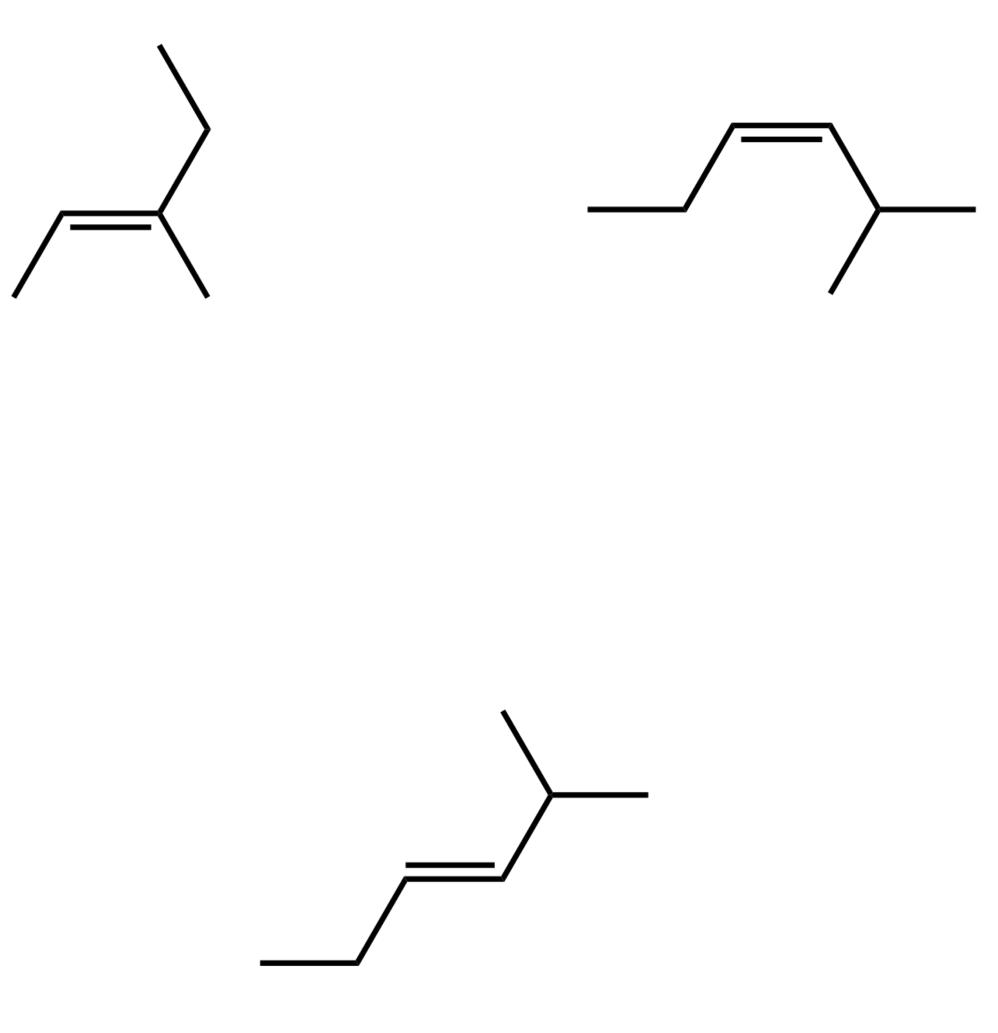


Determine if each of the following compounds can exhibit geometric isomerism.

If it can, assign the relevant bond(s) as *cis*- (*Z*) or *trans*- (*E*). – *answer* –

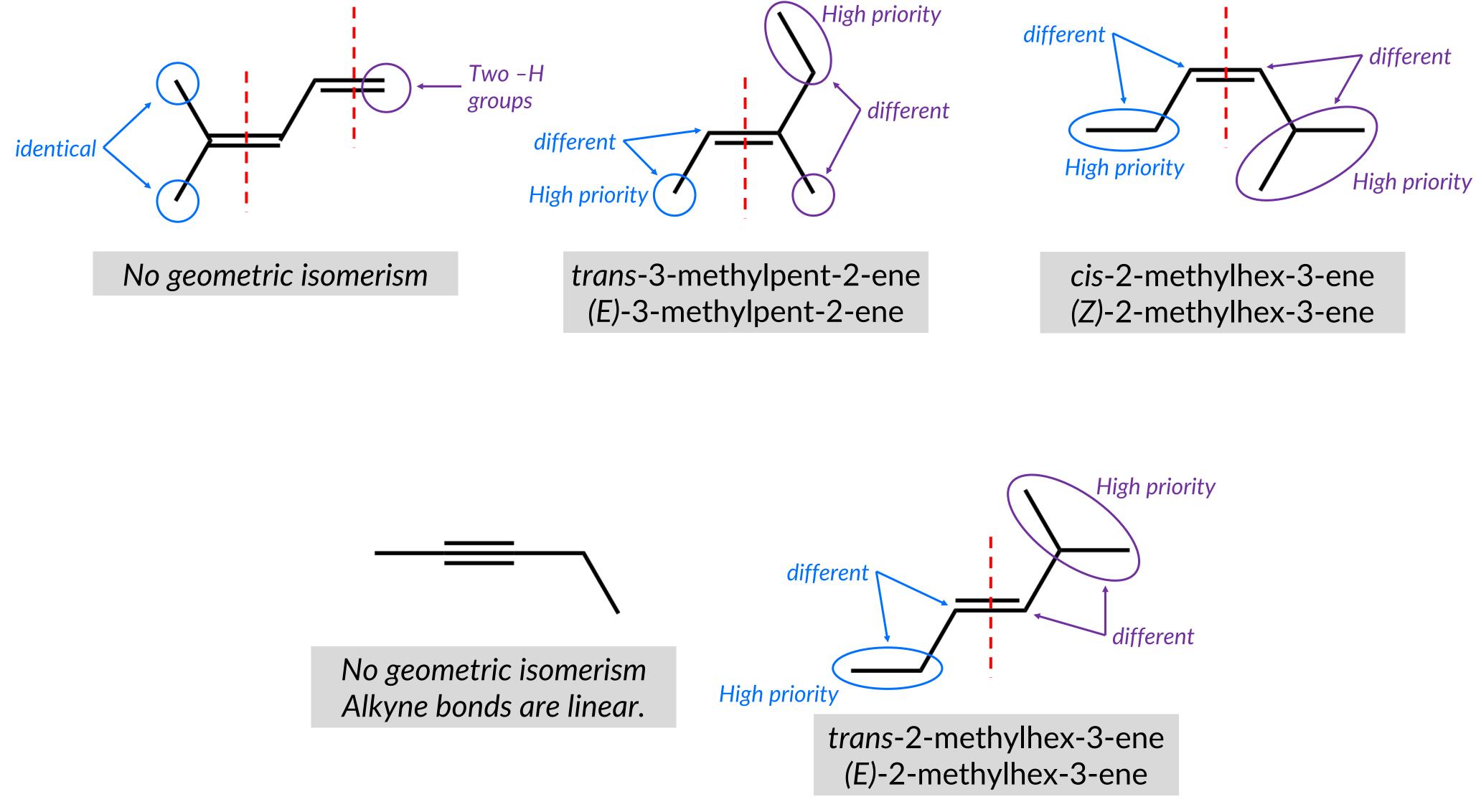






Determine if each of the following compounds can exhibit geometric isomerism.

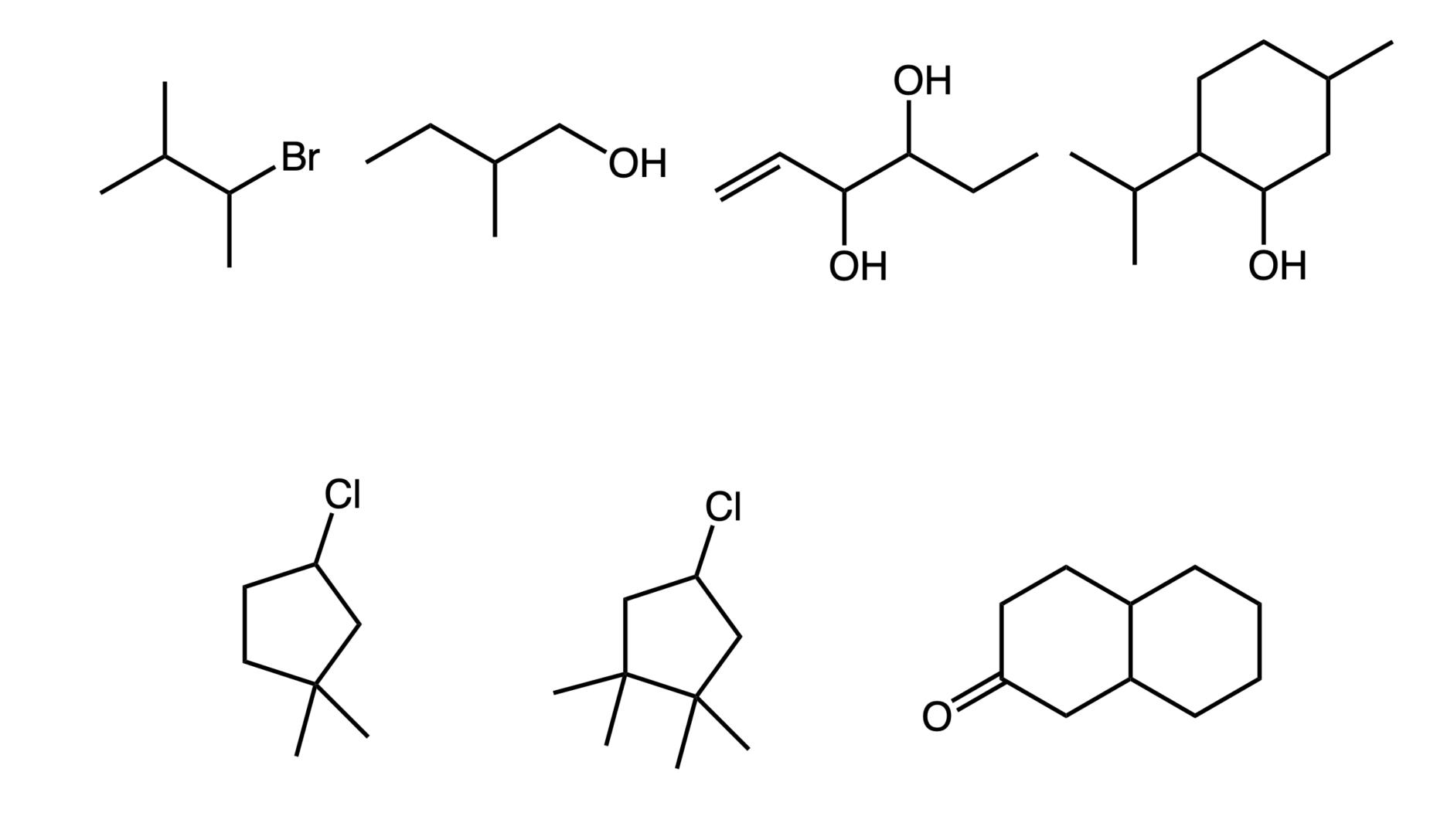
If it can, assign the relevant bond(s) as cis- (Z) or trans- (E). - answer -





For each of the following, identify any chiral center(s), if they exist.

- answer -



For each of the following, identify any chiral center(s), if they exist.

- answer -

