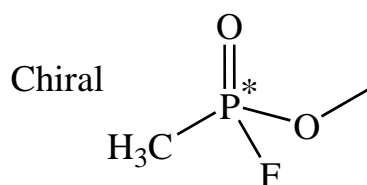
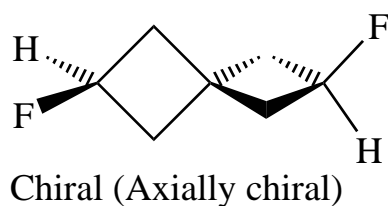
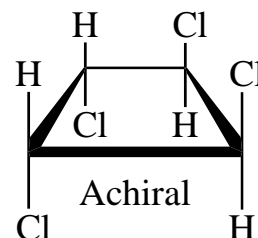
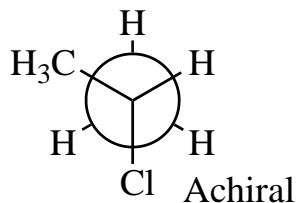
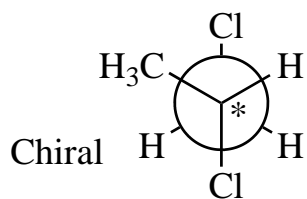


Ex 26A -Chirality/Optical Activity

Question One

Which of the following are chiral?



Question Two

Label all the stereogenic atoms in Question One with an asterix.

Question Three

You measure the rotation of an optically active compound in the class polarimeter and find it to be $+160^\circ$. You then dilute the sample 1:2, measure it's rotation again and omigosh - it's now $-100^\circ!!!$ What the hell happened?

A 1:2 dilution halves the concentration and therefore must halve the measured rotation. If the measured rotation after dilution is -100° , then it must have been -200° before dilution. On a 360° scale, -200° looks the same as $+160^\circ$.