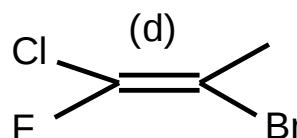
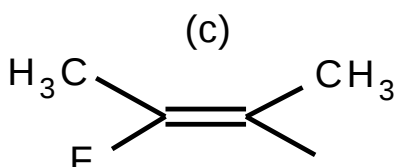
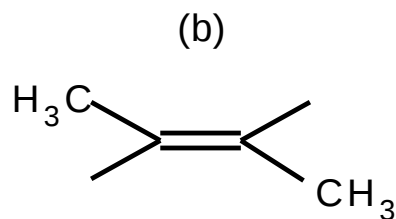
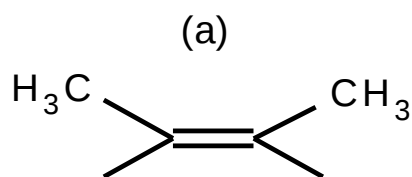


Weekly test – May 22nd 2009

1. Name the following compounds. You must include if they are cis, trans, E or Z.



2. What properties are required for a molecule to be chiral? Give an example.
3. Give the products, mechanisms and conditions required for the following
1. Ethene to ethanol ($\text{CH}_3\text{CH}_2\text{OH}$)
 2. But-2-ene + iodine
 3. Pent-1-ene + hydrogen fluoride
4. Other than the oxidation of potassium manganate (VII), what would be another test for a compound be an alkene?
5. Predict the outcome of the reaction between CH_4 and Cl_2 with a free radical mechanism.
6. What is sp^3 hybridisation?