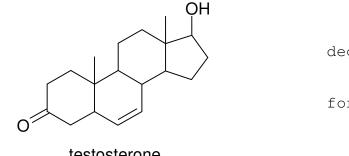
Name	٠	

Organic Chemistry Test #1 - Structures and Nomenclature

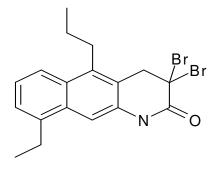
1. For each of the following structures determine the degree of unsaturation and use this information to determine the complete chemical formula. Please note that the saturation formula is given in the next question.



deg. unsat = _____

formula =

testosterone



deg. unsat = _____

formula =

2.

H = [2C + 2] - 2(deg. unsat) - X + N

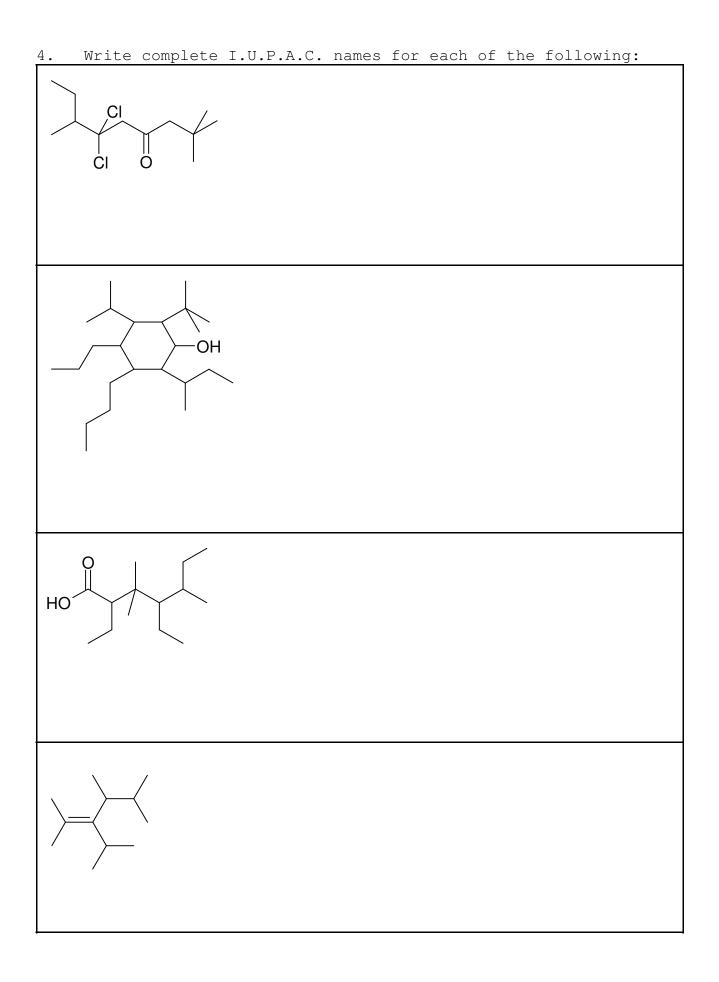
Use the above saturation formula to determine the degree of unsaturation and hence the possible combinations of functional groups (and rings) that would make possible each formula. (1 mark per correct response, some marks may be deduced for extra incorrect answers)

 $C_4H_{10}O$

 $C_6H_{12}O_2$

3. Provide common names and I.U.P.A.C. names for each of the following. If more than one common name exists, include both. Be sure to follow the rules when writing I.U.P.A.C. names. One mark per name

	Common Names	I.U.P.A.C.
_ОН		
ОН		
>⊨o		
HO		
o= H		



5. Provide all structural isomer for this formula. Present your work in an organized fashion. Marks will be deduced for disorder. Also, marks will be deduced for duplicate (or triplicate etc. structures).

 C_4H_7X