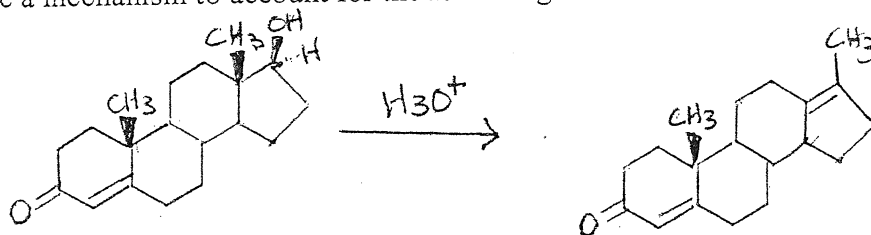


5.

Propose a mechanism to account for the following conversion of testosterone to the alkene shown:



6.

Two compounds (A and B) have formulas  $C_3H_8O$ . They gave the following results with three chemical tests. Propose structures for A and B consistent with this information:

	Na Metal	Chromic Acid $Na_2Cr_2O_7/H_2SO_4$	Lucas Reagent $ZnCl_2/HCl$
Compound A	Bubbles	Orange to green	15 minutes
Compound B	No reaction	No reaction	No reaction

7.

Arrange the following compounds in increasing order of boiling point. Justify your order in terms of intermolecular forces.

