• Propose a mechanism for the following reaction.

Mark s

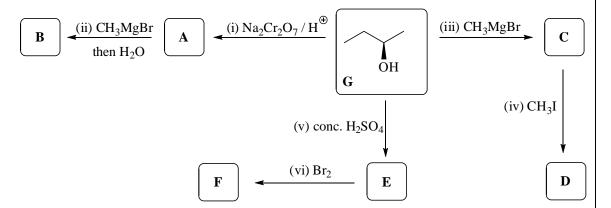
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What isomeric product might also form in this reaction?

Why is **T** the major product?

• Consider the following reaction sequences beginning with the alcohol **G**.

Marks 10



What is the systematic name for **G**?

Suggest structures for compounds A - F in the reaction sequences above.

A	В	С
D	E	F

What type of reaction is occurring at each of the following steps?

Step (iii)	
Step (iv)	
Step (v)	
Step (vi)	

• Draw the constitutional formula(s) of the major organic product(s) formed in each of the following reactions.

Marks 6

• Give the constitutional formula and the name of the major organic product of each of the following reactions.

Marks 2

Name: