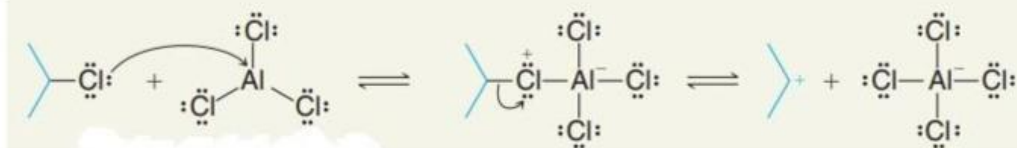
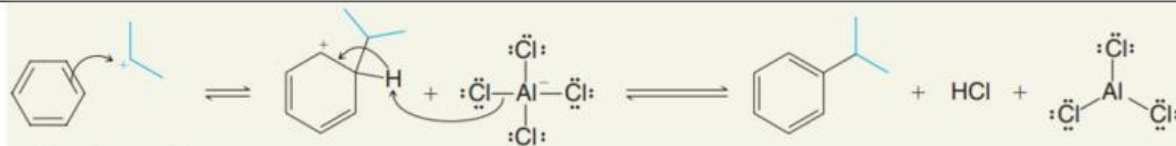


Fill in the blanks:

Friedel-Crafts Alkylation

Step	Mechanism	
Step 1		
	This is a <i>Lewis/Bronsted-Lowry</i> acid-base reaction. The complex dissociates to form a <i>carbocation/carbanion</i> and AlCl_4^-	
Step 2		<p>The <i>carbocation/carbanion</i>, acting as an <i>electrophile/nucleophile</i>, reacts with benzene to produce an arenium ion.</p> <p>A <i>electron/proton</i> is removed from the arenium ion to form isopropylbenzene. This step also regenerates the AlCl_3 and liberated HCl.</p>