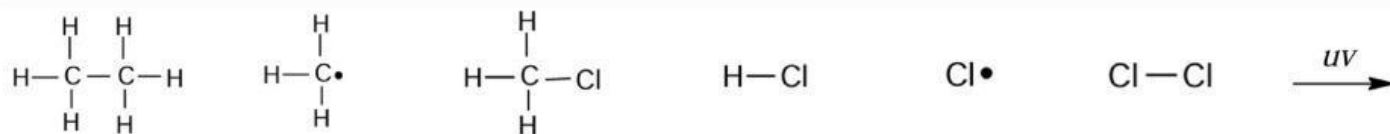
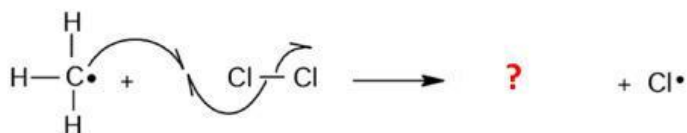
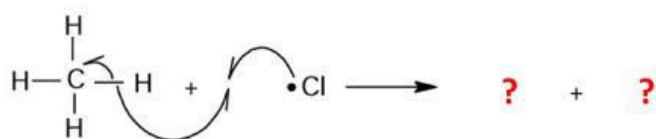


Free Radical Substitution $\text{CH}_4 + \text{Cl}_2 \xrightarrow{uv} \text{CH}_3\text{Cl} + \text{HCl}$
**Step 1: Initiation step****Step 2: Chain Propagation Step****Step 3: Chain Termination Step**