

**THEORY**

1. The reaction of an alkene with a halogen is an example of an electrophilic addition reaction. The mechanism involves the formation of a carbocation intermediate. The carbocation is then attacked by a nucleophile, leading to the formation of the final product.

2. The reaction of an alkene with a halogen is an example of an electrophilic addition reaction. The mechanism involves the formation of a carbocation intermediate. The carbocation is then attacked by a nucleophile, leading to the formation of the final product.

Step	Intermediate	Product
1	Carbocation	Alkyl Halide
2	Alkyl Halide	Alkyl Halide

**QUESTION**

