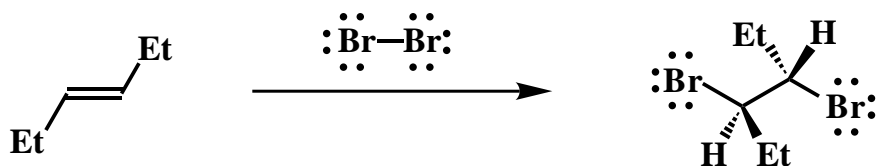


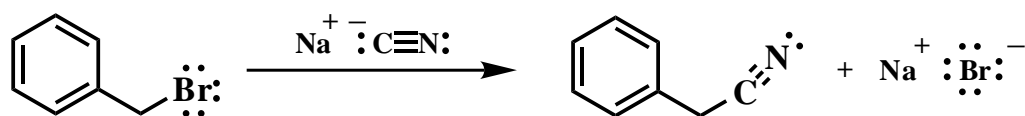
Organic Reaction Mechanisms

Draw the mechanism of each of the following reactions using the curved-arrow notation to indicate the reorganization of electron density. Show all intermediates, lone pairs, formal charges and countercharges where appropriate.

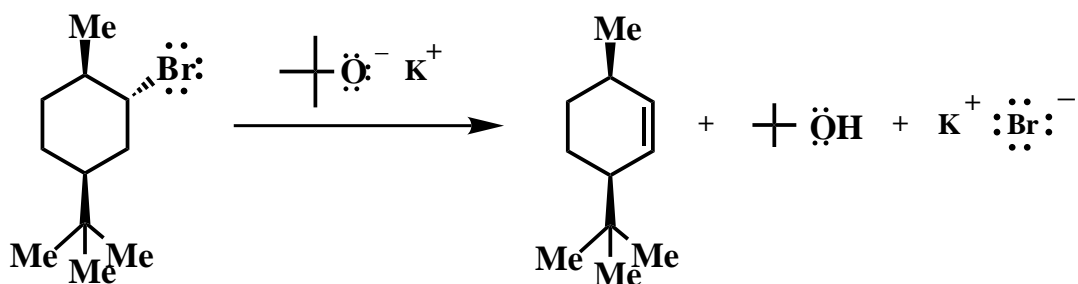
1.



2.



3.



4.

