







TABLE 8.2	TABLE 8.2 GUIDELINES FOR DETERMINING THE REGIOCHEMICAL AND STEREOCHEMICAL OUTCOME OF SUBSTITUTION AND ELIMINATION REACTIONS	
	REGIOCHEMICAL OUTCOME	STEREOCHEMICAL OUTCOME
S _N 2	The nucleophile attacks the α position, where the leaving group is connected.	The nucleophile replaces the leaving group with inversion of configuration.
S _N 1	The nucleophile attacks the carbocation, which is where the leaving group was originally connected, unless a carbocation rearrangement takes place.	The nucleophile replaces the leaving group with racemization.
E2	The Zaitsev product is generally favored over the Hofmann product, unless a sterically hindered base is used, in which case the Hofmann product will be favored.	This process is both stereoselective and stereospecific. When applicable, a trans disubstituted alkene will be favored over a cis disubstituted alkene. When the β position of the substrate has only one proton, the stereoisomeric alkene resulting from anti-periplanar elimination will be obtained (exclusively, in most cases).
E1	The Zaitsev product is always favored over the Hofmann product.	The process is stereoselective. When applicable, a <i>trans</i> disubstituted alkene will be favored over a <i>cis</i> disubstituted alkene.