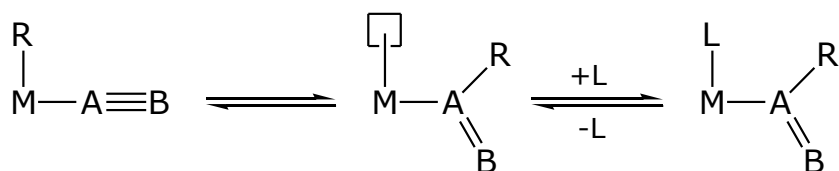
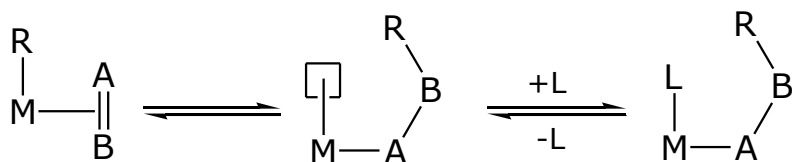


Reminder: Migratory Insertion and Elimination Reactions

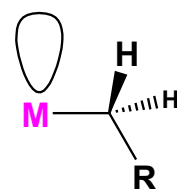
1,1-migratory insertion:



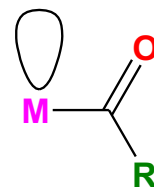
1,2-migratory insertion:



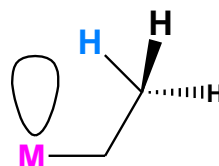
□ = vacant coordination site



α -hydride elimination



carbonyl elimination
or decarbonylation



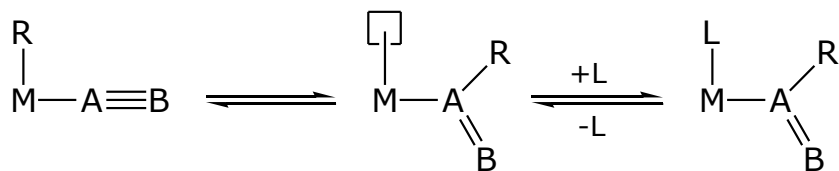
β -hydride elimination

- 1) No change in formal oxidation state (exception: alkylidenes)
- 2) The two groups that react must be **cisoidal** to one another

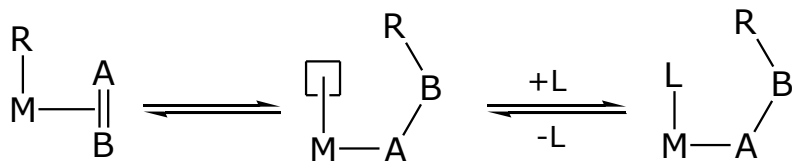
- 1) No change in formal oxidation state (exception: alkylidenes)
- 2) You must have an empty orbital that is **cisoidal** to the group that you are doing an elimination reaction on.

Reminder: Migratory Insertion and Elimination Reactions

1,1-migratory insertion:



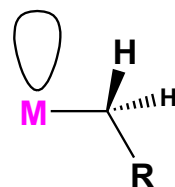
1,2-migratory insertion:



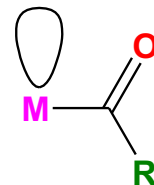
□ = vacant coordination site

Anionic: H⁻, R⁻ (alkyl), Ar⁻ (aryl), acyl⁻,

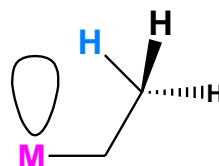
Neutral: CO, alkenes, alkynes, carbenes



α-hydride elimination



**carbonyl elimination
or decarbonylation**



β-hydride elimination

Alkyl elimination not favoured

Migratory Insertion of H on CO not favoured