An addition reaction of an alkene or an alkyne in which the net reaction is addition of two ligands to the multiple-bonded carbon atoms from the same face of the multiple bond is called a syn addition; one in which the net reaction is addition of the two ligands from the opposite faces of the multiple bond is called an anti addition.

eg. 1:

$$\text{net reaction:}$$

![Diagram of syn addition]


eg. 2:

$$\text{net reaction:}$$

![Diagram of anti addition]

**Contributors**

- Gamini Gunawardena from the OChemPal site (Utah Valley University)