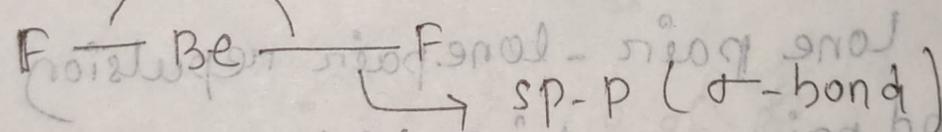
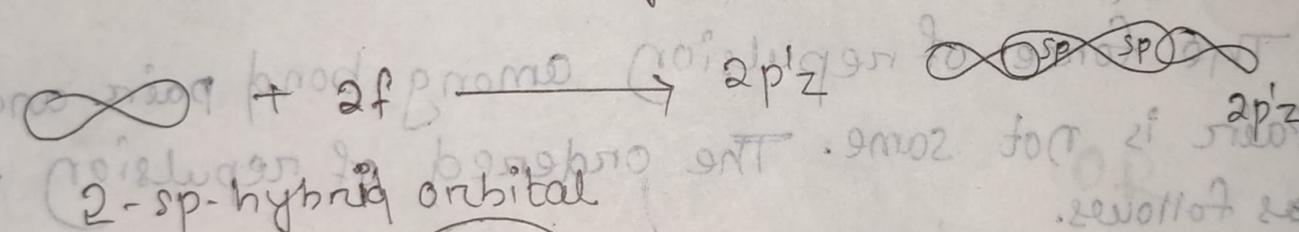
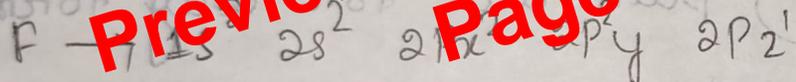


In Be-atom one ~~is~~ 2s and one 2p orbital
 over to give two resultant equivalent sp-hybrid
 orbital of equivalent energy.

All the 2 orbitals contain one e^- each.



Half filled $2p_z$ orbital of two F-atom get overlap
 with half filled sp hybrid orbital of Be atom to
 form sp-p (σ -bond)

In BeF_2 molecule bond angle equal to 180°
 and the shape of BeF_2 molecules is linear.