

In the reaction, $2X + B_2H_6 \longrightarrow [BH_2(X)_2]^+[BH_4]^-$
 the amine(s) X is/are (2009)

- (a) NH_3 (b) CH_3NH_2
 (c) $(CH_3)_2NH$ (d) $(CH_3)_3N$

Diborane (B_2H_6) undergoes unsymmetric cleavage with NH_3 , primary and secondary amine while tertiary amine brings about symmetrical cleavage of B_2H_6 as :

