# CLASS 8 MATHEMATICS HANDOUT 03

# TOPIC : MULTIPLICATION OF BINOMIAL TO BINOMIAL AND BINOMIAL TO TRINOMIAL

Multiplying a binomial to a binomial :

In multiplication of a binomial to another binomial every term in one binomial is multiplied by every term of another binomial and than add and subtract the like terms.

Example : (a+b) X ( a+2b)= a(a+2b) + b (a+2b)[Distributive property]

= a²+2ab+ba+2b²

= a2+3ab+2b²

Multiplying binomial to trinomial :

In this multiplication every term of binomial is multiplied by every term of trinomial and than simplify by applying different properties.

Example : (2x+y) X (a+b+c) = 2x X (a+b+c) + y X ( a+b+c) [ Distributive property]

= 2xa+2xb+2xb + ya + yb+yc