

Binomial Expansion Theorem

Ex 1 Expand and simplify
 $(x-2)^6$

The Binomial Theorem:

$(a+b)^n$; $K = \#$ of the term

then the K^{th} term is

$${}_n C_r a^{n-r} b^r \quad (\text{where } r = k-1)$$

Ex 2 Find the 5th term of $(a+b)^7$

Ex 3 Find the second term of
 $(x-3y)^6$

$${}_n C_r a^{n-r} b^r$$