Term	Expansion
$(a+b)^0=$	1
$(a+b)^1=$	1a+1b
$(a+b)^2=$	$1a^2$+2ab+$1b^2$
$(a+b)^3=$	$1a^3$ $+3a^2b+3ab^2+1b^3$
$(a+b)^4=$	$1a^4$ $+4a^3b+6a^2b^2+4ab^3+1b^4$
$(a+b)^5=$	$1a^5$ $+5a^4b+10a^3b^2+10a^2b^3+5ab^4+1b^5$

Pascal's Triangle

the power of (a), when looking at each term at any expansions and moving from left to right , follows the pattern:

n,n-1,n-2,……2,1,0

the power of (b), when looking at each term at any expansions and moving from left to right , follows the pattern:

0,1,2…….n-2,n-1,n

The value of the coefficients of each of the terms in any of the expansions are symmetrical about the middle coefficient when (n) is even and symmetrical about the middle 2 coefficients when (n) is odd.

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Term	Value of coefficients in the expansion
$(a+b)^0=$	1
$(a+b)^1=$	1 1
$(a+b)^2=$	1 2 1
$(a+b)^3=$	1 3 3 1
$(a+b)^4=$	1 4 6 4 1
$(a+b)^5=$	1 5 10 10 5 1