

01 Binomials

(Pascal's Triangle)

Pascal's Triangle

0				1											
1			1		1										
2			1		2		1								
3			1		3		3		1						
4			1		4		6		4		1				
5			1		5		10		10		5		1		
6			1		6		15		20		15		6		1
7	...														
8	...														
9	...														

Pascal's Triangle Textbook

0	1
1	1 1
2	1 2 1
3	1 3 3 1
4	1 4 6 4 1
5	1 5 10 10 5 1
6	1 6 15 20 15 6 1
7	...
8	...
9	...

So what does this mean to us, working with polynomials? Binomials in particular $(a+b)^n$	
0	1
1	1 1
2	1 2 1
3	1 3 3 1
4	1 4 6 4 1
5	1 5 10 10 5 1
6	1 6 15 20 15 6 1
7	...
8	...
9	...

So what does this mean to us, working with polynomials? Binomials in particular $(a+b)^n$	
n	$(a+b)^n$
0	1 $(a+b)^0$
1	1 1 $(a+b)^1$
2	1 2 1 $(a+b)^2$
3	1 3 3 1 $(a+b)^3$
4	1 4 6 4 1 $(a+b)^4$
5	1 5 10 10 5 1 $(a+b)^5$
6	1 6 15 20 15 6 1 $(a+b)^6$
7	... $(a+b)^7$
8
9
