

Extended Pascal Triangle

$$\binom{n}{k} + \binom{n}{k+1}$$

$$= \binom{n+1}{k+1}$$

									1	-7	28	-84									
									1	-6	21	-56									
									1	-5	15	-35	70								
									1	-4	10	-20	35								
									1	-3	6	-10	15	-21							
									1	-2	3	-4	5	-6							
									1	-1	1	-1	1	-1	1						
									1												
										1	1										
											1	2	1								
												1	3	3	1						
													1	4	6	4	1				
														1	5	10	10	5	1		
															1	6	15	20	15	6	1

Extended Pascal Triangle

$$\binom{-r}{k} = (-1)^k \binom{r+k-1}{k}$$

