

## *Binomial utveckling*

$$\begin{array}{l} (a + b)^0 \\ (a + b)^1 \\ (a + b)^2 \\ (a + b)^3 \\ (a + b)^4 \\ (a + b)^5 \\ (a + b)^6 \\ (a + b)^7 \\ (a + b)^8 \\ (a + b)^9 \end{array} \begin{array}{l} 1 \\ a + b \\ a^2 + 2ab + b^2 \\ a^3 + 3a^2b + 3ab^2 + b^3 \\ a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4 \\ a^5 + 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4 + b^5 \\ a^6 + 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5 + b^6 \\ a^7 + 7a^6b + 21a^5b^2 + 35a^4b^3 + 35a^3b^4 + 21a^2b^5 + 7ab^6 + b^7 \\ a^8 + 8a^7b + 28a^6b^2 + 56a^5b^3 + 70a^4b^4 + 56a^3b^5 + 28a^2b^6 + 8ab^7 + b^8 \\ a^9 + 9a^8b + 36a^7b^2 + 84a^6b^3 + 126a^5b^4 + 126a^4b^5 + 84a^3b^6 + 36a^2b^7 + 9ab^8 + b^9 \end{array}$$

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  
1 7 21 35 35 21 7 1  
1 8 28 65 70 56 28 8 1  
1 9 36 84 126 126 84 36 9 1