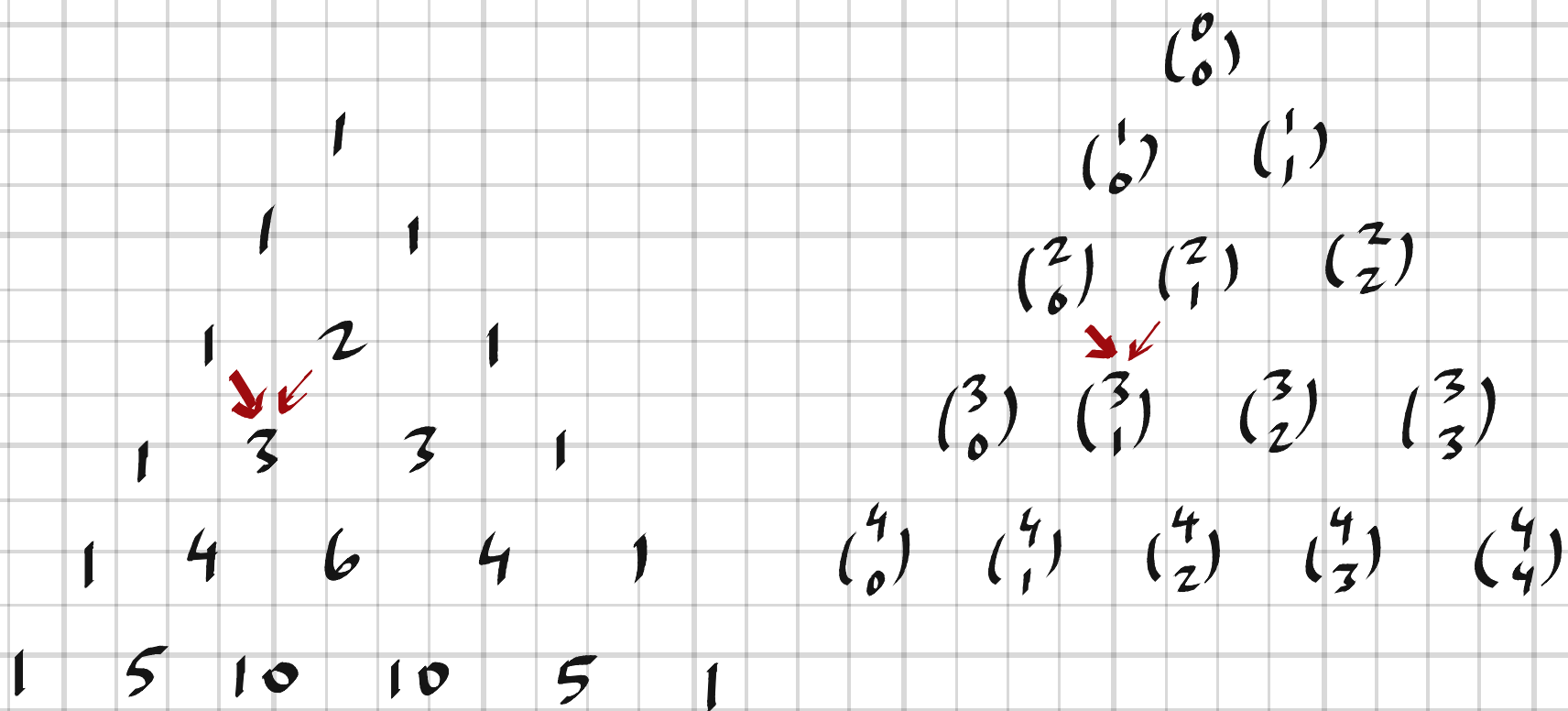


# Pascals triangle



$$\binom{3}{1} = \binom{2}{0} + \binom{2}{1}$$

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

Pascals formel

$$(a+b)^5 = a^5 + 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4 + b^5$$

$$(x-3y)^5 = x^5 + 5x^4(-3y) + 10x^3(-3y)^2 + 10x^2(-3y)^3 + 5x(-3y)^4 + x^5(-3y)^5 =$$

$$= x^5 - 15x^4y + 90x^3y^2 - 270x^2y^3 + 405xy^4 - 273y^5$$