

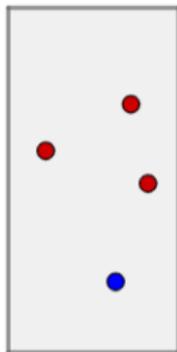
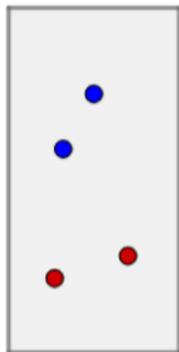
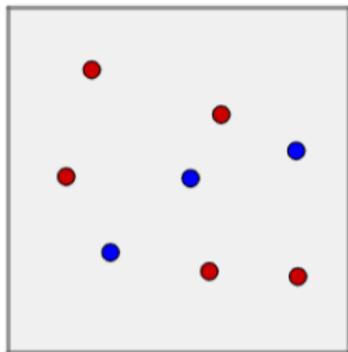
# Est-ce qu'on peut faire des maths sans calculs?

Clementina Tierno

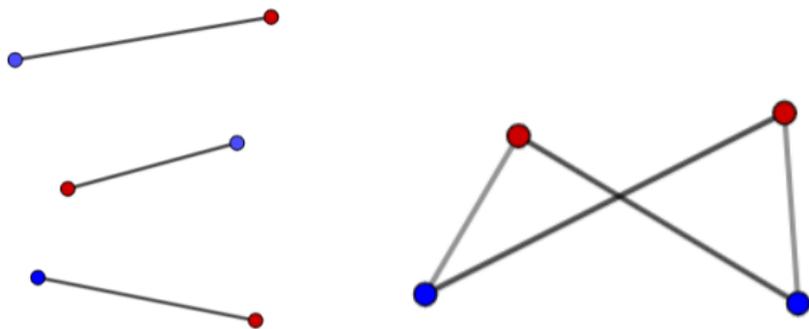
13 octobre 2023

$$\binom{2n}{k} = \sum_{i=1}^k \binom{n}{i} + \binom{n}{k-i}$$

$$\frac{(2n)!}{k!(2n-k)!} = \sum_{i=1}^k \frac{n!}{i!(n-i)!} + \frac{n!}{(k-i)!(n-k+i)!}$$



$n$  points rouges et  $n$  points bleus  
jamais trois points alignés



$$S_0 > S_1 > S_2 > \dots > S_f$$