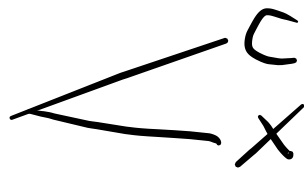
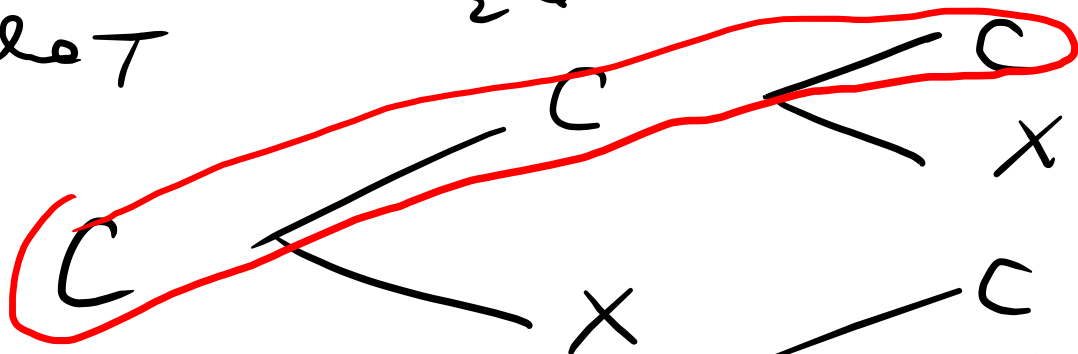
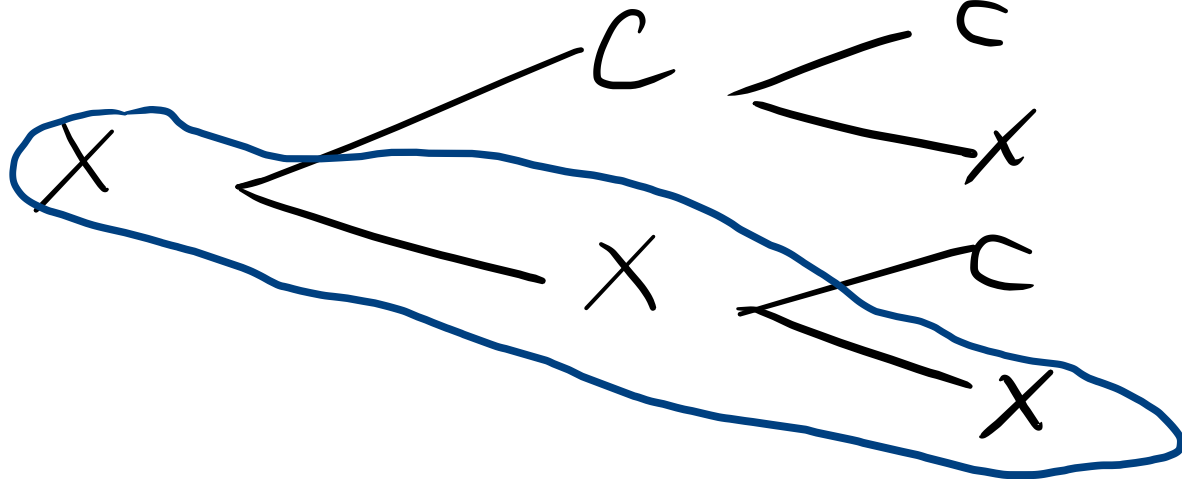


1st

2nd



$$2^3 = 8$$

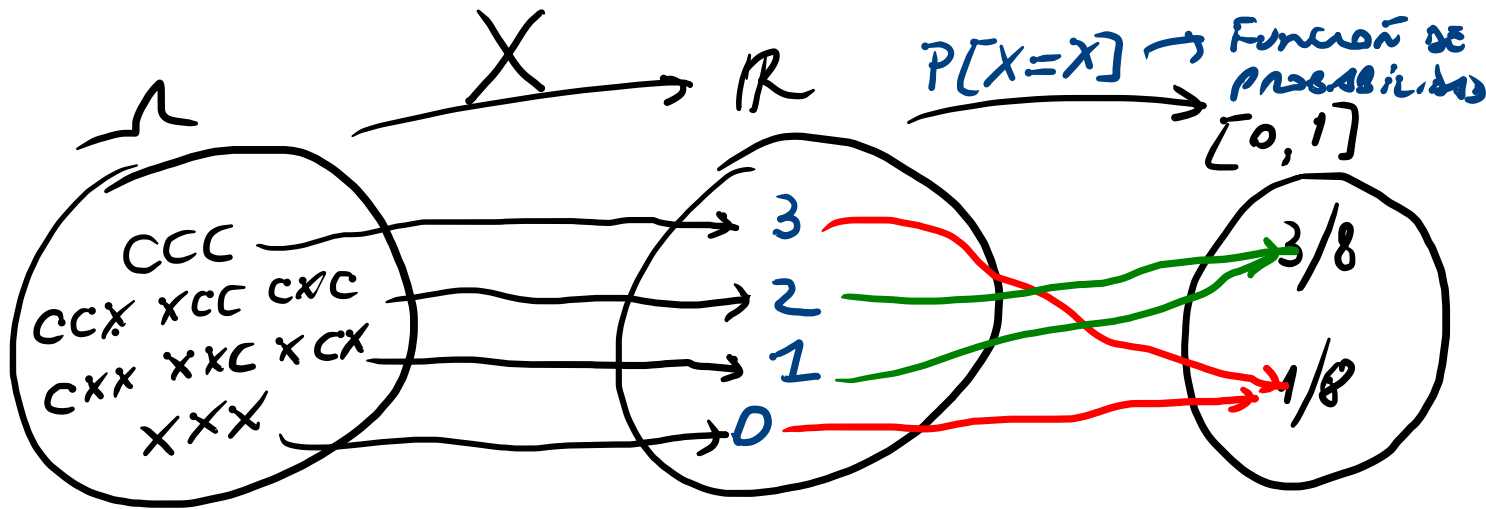


$\{ccc, ccx, xcc, cxc, cxx, xcx, xxc, xxx\}$

Ω

$X = \# \text{ de casos } \dots$

$\Omega(x) = \{0, 1, 2, 3\}$



X ES UNA VARIABLE ALEATORIA

$$X: \Omega \rightarrow \mathbb{R}$$

$$P[X=x]: \mathbb{R} \rightarrow [0, 1]$$

2 condiciones:

1) Condición de cierre

$$\sum_{\forall x} P[X=x] = 1 \rightarrow \text{EXHAUSTIVIDAD}$$

2) Condición de no negatividad

$$P[X=x] > 0 \quad \forall x \quad \left\} \underline{\underline{P(\emptyset) = 0}}$$

VA DISCRETA $\rightarrow \Omega$ $\begin{cases} \text{Finito} \\ \text{Infinito} \\ \text{Numerable} \end{cases}$

\uparrow $\begin{cases} \text{"Conteo"} \\ \text{Discretización} \end{cases} \rightarrow \underline{\underline{AID}}$

VA CONTINUA $\rightarrow \Omega \rightarrow \begin{cases} \text{Infinito} \\ \text{No} \\ \text{Numerable} \end{cases}$

\rightarrow Magnitud

VA MIXTAS \rightarrow Combinación de ambas

x	$P[X=x]$	$F[X=x]$
0	0,10	0,10
1	0,20	0,30
2	0,30	0,60
3	0,10	0,70
4	0,15	0,85
5	0,15	1

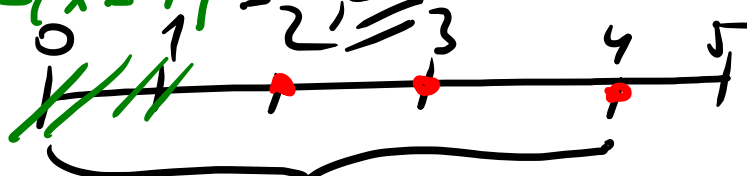
1

$$P[2 \leq X \leq 4]$$

$$\textcircled{a} = P[X=2] + P[X=3] + P[X=4]$$

$$= 0,30 + 0,10 + 0,15 = 0,55$$

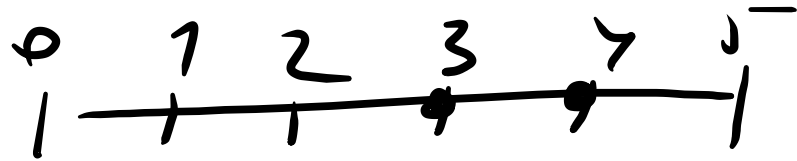
$$F[X=1] = 0,30$$



$$F[X=4] = 0,85$$

$$F[X=4] - F[X=1]$$

$$P[2 < X \leq 4]$$
$$= \underbrace{P[3 \leq X \leq 4]}$$



$$s^2_x = \sum_{i=1}^n \frac{(x_i - \bar{x})^2 f_i}{n} = \underbrace{\frac{\sum x_i^2 f_i}{n}}_{m_2} - \underbrace{\bar{x}^2}_{m_1^2}$$

$$\text{Var}(x) = E(x^2) - (E(x))^2$$

$$\underbrace{\bar{x}}_{\text{MEAN}} \longrightarrow \underbrace{E(x)}_{\text{POBABILITY}}$$

TAMAGLIA
(PASCOL)

