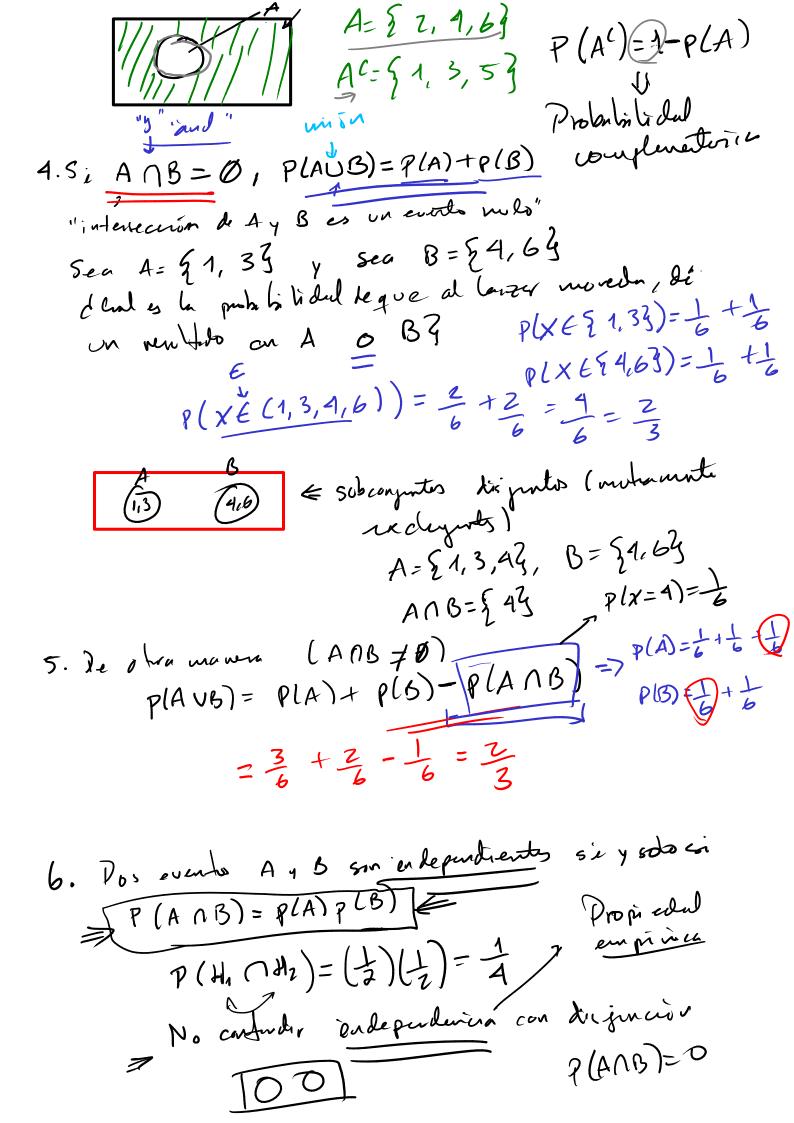
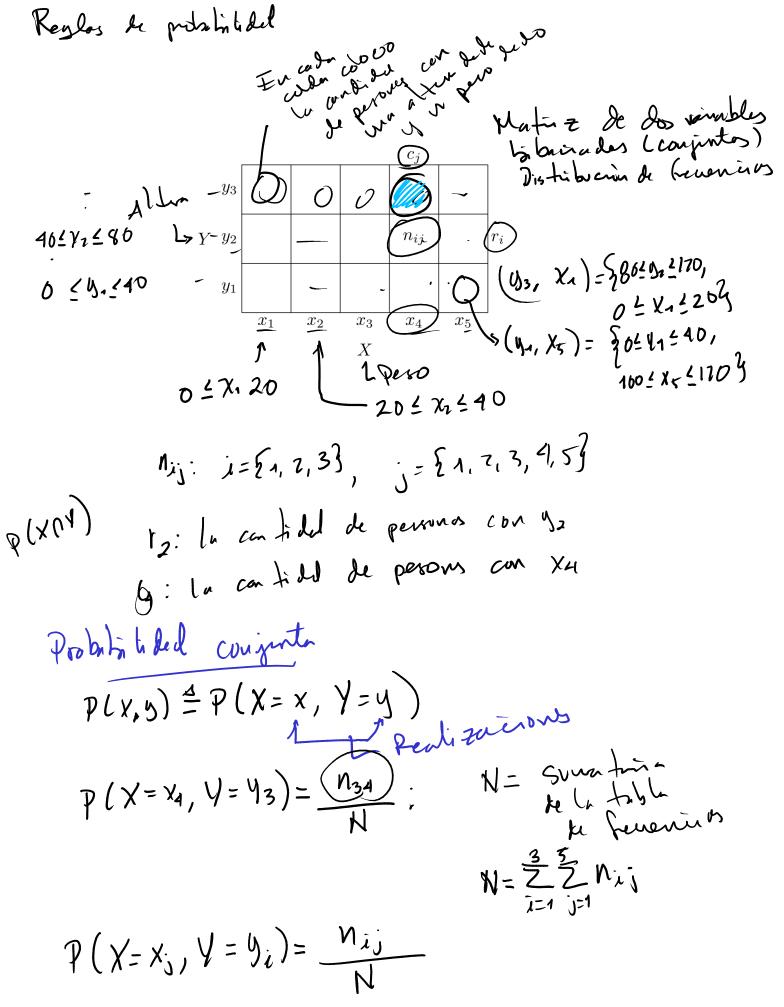
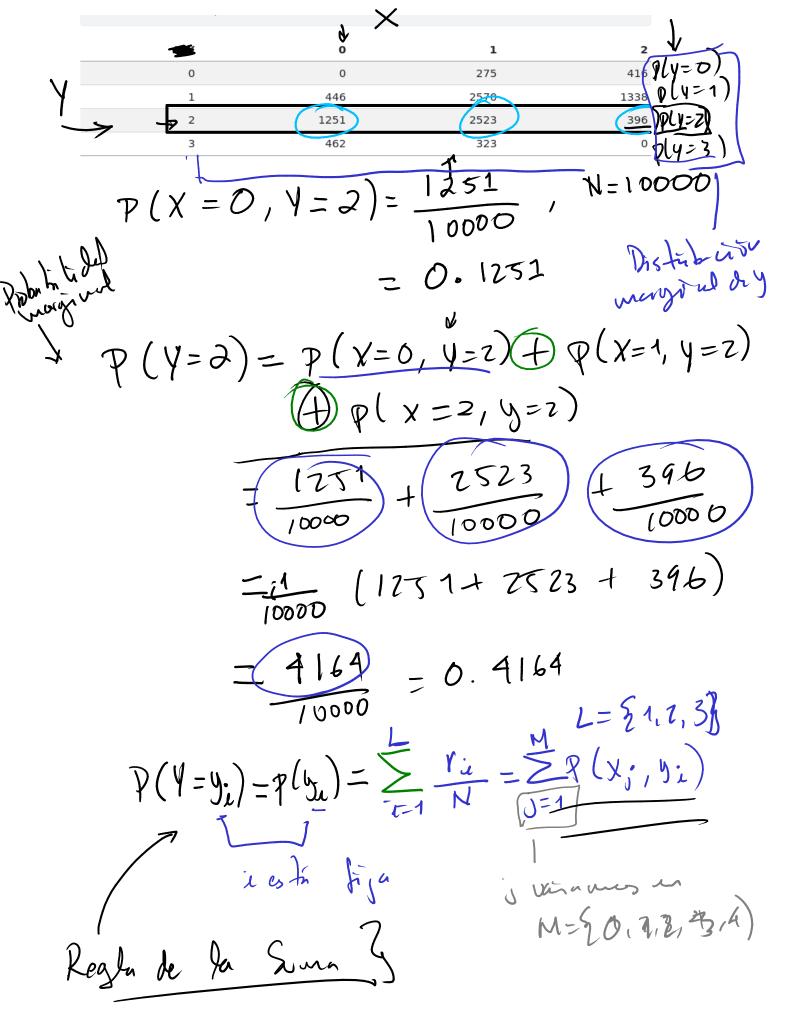
Tema 2. Holdes de distribución de devarded
VA, espacios muestrales y realizaciones X: representa na cantilel heronoù la, VA. X: conjuto le todos los valons possibles que The toner la VA. Espacio muestral
Events: 5 ob conjunto de valores del es patro mosses
$\chi = \frac{1}{2}, \frac{3}{4}, \frac{5}{6}$
BCX
A= {X: XEZ7,4,6}}
= Medica la temperation de un homo X es um regla, X es un finerar que retorna municipa
X: X-> R Ma pen del es peus unestral al conjuto de los reals
X(x) = 75°C)
$X(X)$ $\exists f \circ C$ $X(X)$ $\exists f \circ C$ $\exists MI : indice he man corporal variable one has a symptom \exists M = \frac{\text{peso en } (x_0)}{\text{H}^2(m^2)} \ \exists X(w,h) = \frac{w}{h^2}$

X=180°C X Rentitation & X X: redización de X 7un BMI 7= X (70, 1.75) = 22.86 Kg/m2 7(X=x) P(X=22.86), 8(22.86) probaba lidal and dul mobili li del 7 de que el lanxer ma monda l'édiga b (X= H)=== X= 54, T9 H> 1/2, 2, 2, 2, 3 & Frewering P(A) = Cacos favorables de A total de cresos P() es un finción que una pen A=22,1,63 $P: A \longrightarrow \mathbb{R} \in [0, 1]$ B= ED 3, A 5, C) Algung propiedels PACB 1. 7 (1) = 0 P(X=2)= = 1 2. Si ACB, P(A) Sp(B) P(X=4)= - 4 4 P(X=6)=1 3. A judica complements Le A, $P(A^c) = 1 - P(A)$ P(B) = 5)







Fijamos X= K1 Y/X 416 1338 1251 la fación de cons e Se escribe cono $P(Y=Y_2 \mid X=X_1) = C_1$ Dado que X=Xn, c' cred es la pelm Y=921 de yu cendi cure Probability Jul $> P(y_i \mid \chi_j) = \frac{n_{i,j}}{C_i^2}$ 7(x5) Nij / = Ni; $P(\chi_i, y_i) =$ p(X; \")i) 7 (y; \x:) P(X;, bi) = P(Y; \X;)

$$P(y_{1}|X_{1}, y_{1}) = P(y_{1}, X_{1})$$

$$P(y_{1}|X_{1}) = P(X_{1}|Y_{1}) P(y_{1})$$

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$$P(X_{1}$$

$$\frac{1}{10000} + \frac{946}{10000} + \frac{1251}{10000} + \frac{247}{10000} + \frac{257}{10000} + \frac{247}{10000} + \frac{257}{10000} + \frac{265}{10000} = 0.7065$$

$$\frac{1}{10000} + \frac{9065}{10000} = 0.7065$$

$$\frac{1}{10000} + \frac{1005}{10000} = 0.7065$$

$$\frac{1}{10000} + \frac{1000}{10000} + \frac{1000}{10000} + \frac{1000}{10000}$$

$$\frac{1}{10000} + \frac{10000}{10000}$$

$$\frac$$

'A:Discutor In la de Y = 217545 Les tians

Porn UA disce tes P(x) lo blama uns finavarde probabilité dal, función de uner de probabilidel (punf: probability mass Lundim) Si X es UA kisreln Van VA contina, XER f(x) la friende de denoidel de probability density function) P(x=2) & vi es tri definido en x es vA director. Pan UA cont. os pein framo en enteredo en donde en encerte $\frac{f(x=2)=0}{\Delta x = X_2 - X_1}$

$$F(a \le x \le b) = \int_{0}^{b} f(x) dx$$

$$f(x) = contina$$

$$F(a \le x \le b) = \int_{0}^{b} f(x) dx = p(x) \Big|_{0}^{b} = P(x=b) - p(x=b)$$

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$$= \int_{0}^{b} f(x) dx = p(x) \Big|_{0}^{b} = P(x) \Big|$$

Right
$$P(x) = Z p(x, y)$$
; $P(x) = \int_{y=-\infty}^{y=-\infty} f(x, y) dy$

$$P(x, y) = p(y|x) p(x)$$

Frenches em finiones cono is dos, torver forms (ti un ma evanión)

1. Dudn $f(y) = cy^2$, $0 \le y \le 2$, y = f(y) = 0 en alger or o to parte, en even to el vedor de C para et aval fly) es van función de densi de l'visli da.

Le donsi de l'virli du.
$$\int (y) = \begin{cases}
Cy^2 & \text{si } 6 \le y \le 2 \\
0 & \text{en cualyer} \\
0 & \text{o to cons}
\end{cases}$$

Pos propiededes de avalgür función de densidad 1. $f(y) \ge 0$ $\Rightarrow 1. p(y) \ge 0$ $\Rightarrow 2. \ge p(y) = 1$ $\Rightarrow 2. \ge p(y) = 1$

$$F(1 \le 5 \le 2) = \left(\frac{3}{7} y^2 dy = \frac{3}{7} \left(\frac{3}{7} y^2 dy = \frac{3}{7} \left(\frac{5}{7} \frac{3}{3}\right)\right)$$

$$= \frac{3}{7} \left(\frac{3}{7} \frac{3}{3} - \frac{(1)^3}{3}\right) = \frac{3}{7} \left(\frac{7}{7} \frac{3}{3}\right)$$

$$= \frac{7}{7}$$

$$= \frac$$

3. Cons medida de inteligencia, a vuos patones se les tour tiemps que tudan en pasur pur un laheinto. El tremo en signales vecesario par adjus nter es un VA Y can pdf kada per f(y) = (b) , in 42b (o) en udgier oto puta For had be us of tienger unimum posible par resour of labourts. De moster que fla) es un pet válida y enouher part gé volons de bes válida balertup $\Rightarrow 1. f(g) \geq 0$ es 6≥0, 72. F(y) = f(y)dy = 1 y^2 $f(g) \geq 0$ 7 b