

9	
P	d) SON AYB INDEPENDIENTES?
13	CON P(A) = 0.275 y P(B) = 0.125
P	PODEMOS DEMOSTRAR QUE SON INDEPENDIENTES SI
	a) P(A)B) = P(A) · P(B) o'b) P(A B) = P(A)
	o'c) P(BIA) = P(B)
	DEMOSTRAR a).
	P(A nB) = P(A).P(B)
	SEA P(A n B) = 0.013 (DEL EJERCICIO E)
13	DO.0125 = 0.275 · 0.125
	± 0.034375
	: LOS EVENTOS NO SON INDEPENDIENTES
13	
3	
3	
1	
	a PRUEBA de
	ice Data Center TODO

Data Center

15 OBTENER ESPERANZA + 15 + 21)/3 + 7+3)/3 13 b) OBTENER VARIANZA OX = N-1 = (XI-Mx) $\sigma_{h_1}^2 = \frac{1}{2} \left((3-13)^2 + (15-13)^2 + (21-13)^2 \right) =$ Oh2 = 2 ((1-4) + (6-4) = $\sigma_{h_3}^2 = \frac{1}{2} \left((13 - \frac{23}{3})^2 + (7 - \frac{23}{3})^2 + (3 - \frac{23}{3})^2 \right)$ C) MATRIZ DE COVARIANZA EXY = = = (X-Mx)(y, - MY) $\Sigma_{h_1,h_2} = \frac{1}{2}((3-13)(1-4)+(15-13)(5-4)+(21-13)(6-4)) = 24$ 2 Ehi, h3 = 2 (3-13)(13-3)+(15-13)(7-23)+(21-13)(3-23))=-46 アンション (1-4)(13-2音)+(5-4)(7-音)+(6-4)(3-音) = -13 Oh = 84, Ohz=7, Oh3=76/3 24 -46 24 -13

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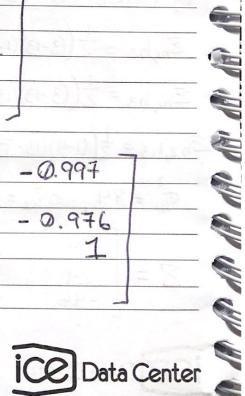
a PRUEBA de TODO

d) MATRIZ DE CORRELACION DE PEARSON COV(Xi,X;) PX, X; = OX; OX; cov (h, h2) = 24 1021 = 184 cov (h, h3) = -46 Ohz oh3 = cov(hz, h3) = -13Oh, - Oh2 = 184.17 5 24.25 Oh: Oh3 = 184. 46.13 Ohz. Oh3 = 7. 76 ZAXX8 -46 D.989 -0.997 1 + 0.989 - 0.976

-0.976

a **PRUEBA** de **TODO**

- D.997



E L