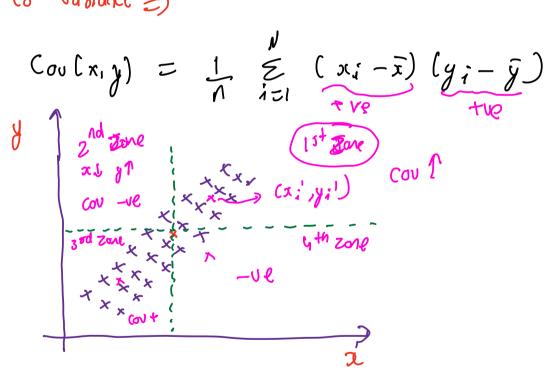


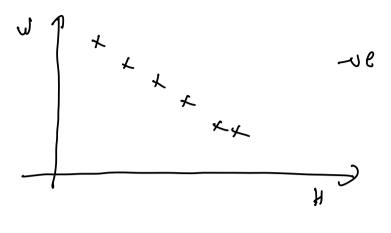
Variance  $3\int_{0}^{N} \frac{(x_{i}-\overline{x})}{(x_{i}-\overline{x})}$ 

(o - variance =)



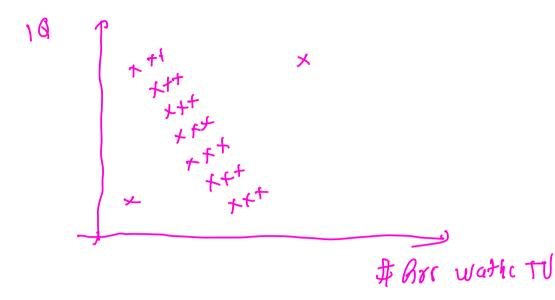
weight x x x

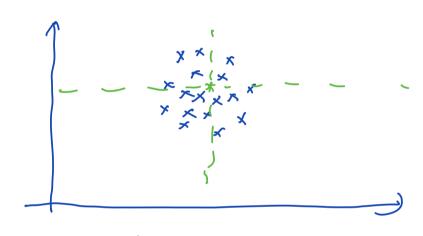
COU 1 tue



 $\frac{1}{n} \in (x,-\overline{x}) \cdot (y,-\overline{y})$   $\frac{1}{n} \in (x,-\overline{x}) \cdot (y,-\overline{y})$  Cov = 0

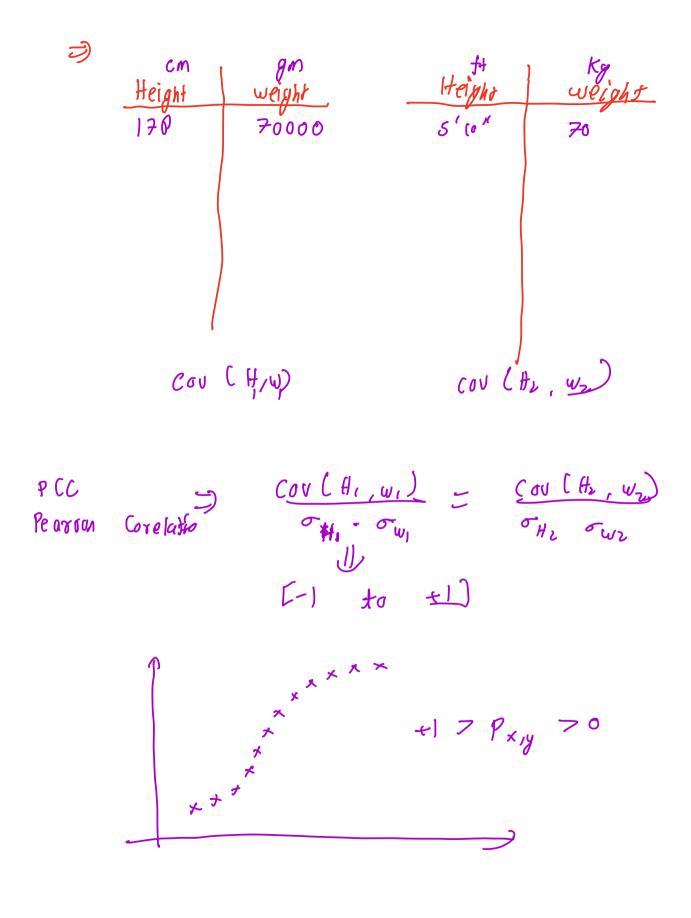
× × >>>>





x, x -sindependent event cov(x, x)=0

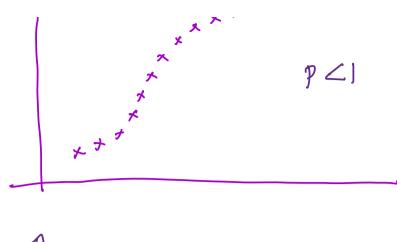
 $y = x^2$ O =) If cov(x,y) = 3then x,y may not be independent event  $x = x^2$ 

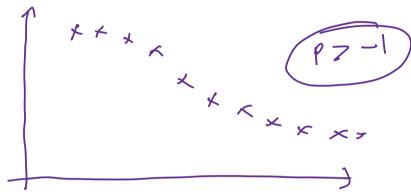


IQ Coffee 1) corelation is the 2 Coffee T my Ip Causation measure Causatian test AlB -> / Causation Ana HSI)

n

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<b>K</b> (	. Ys			
IQ	Tu	Jankxi	bank y y	
86	2	1	1	
97	20	2	6	0
99	20	3	8	Prankx; ranky;
100	27	4	7	
los	50	5	10	
(03	29	L	9	2
601	7	7	3	
110	17	8	5	
112	6	9	2	(2-1)
113	12,	10	/ y	2-5
		•		

Pra, tu

PIQITU = 
$$\frac{1}{1}(86 - \overline{x})(2 - \overline{y}) + - -$$

SPRIR RTU =  $\frac{1}{1}(1 - \overline{x})(1 - \overline{y})$ 

Sperman (x,y) = P(C(Rx, Rx)