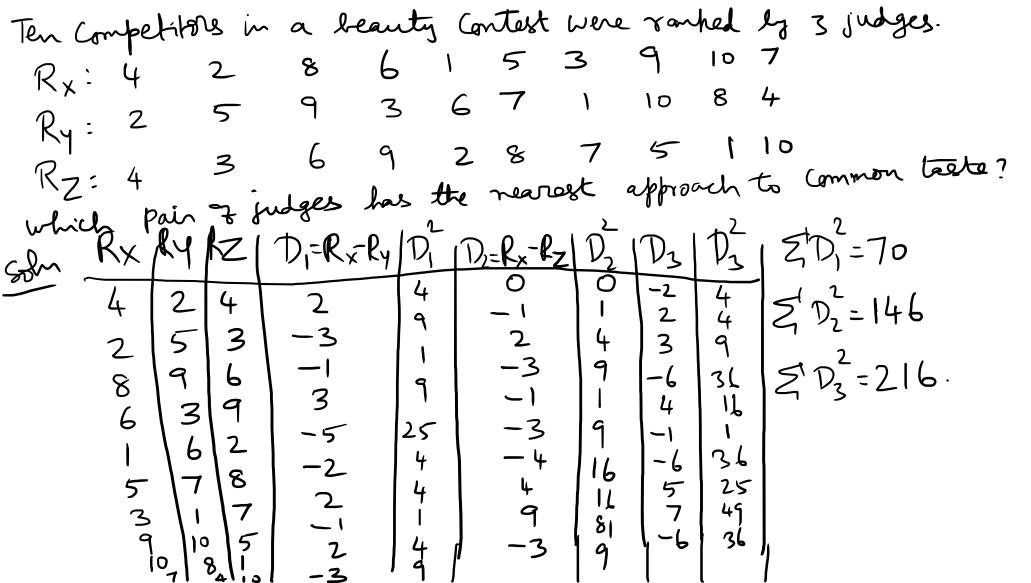
$P = 1 - \frac{5}{5} = \frac{1}{12} \left(\frac{m^3 - m}{12} + \frac{1}{12} \right) \right) \right) \right) \right) \right)$ Kank correlation. D=Rx-Ry. & m > no & times a particular rank gets repeated. nality of mo stranstons. X>ht & the sondent. y > Marks Scored by the Students.



$$|X| = 1 - \frac{6(76)}{10(99)} = 0.542$$

$$|X| = 1 - \frac{6(76)}{10(99)} = 0.542$$

$$|X| = 1 - \frac{6(146)}{10(99)} = 0.115$$

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 $\frac{62^{1}D_{3}^{2}}{N(N^{2}-1)}=1-\frac{6(216)}{10(99)}=-0.309$

Pxy = '

P42=

 $N(N_{5}-1)$

Regression lines x, 7 & Z Regression line of X on Y. (x depends on Y) Parfial Correlation (keep one Variable Corst) $(x-\overline{x})=lxy(y-\overline{y})$ Regressions) $lxy=\frac{N\overline{x}^{1}xy-\overline{x}^{1}x\overline{y}}{n(x)^{1/2}}$ tultiple correlation. (effect of one roy Variable over other Variables) Regnession line of y on x 4-4= frx (x-x) 1-1x= NXXY-ZXXY = Y y=f(x).

5 (107) - (15)(40) 0-283. Total

x ony (x depends on 4) x-x= bxy (4-7) X-3=-0.283(Y-8)x = 3 - 0.2834 + 8(0.283) = 5.264 - 0.2834X = 5 - 264 - 0.2834 $4-8=-1.3(x-3) \Rightarrow 4=8-1.3 \times +3.9$ 4=11.9-1.3X

 $(x \text{ on } y) \Rightarrow x = 5 - 264 - 0.283 y.$ (yon) = 11.9-1.3x. given x, to find y, use y on x. given Y, to find X, use X on Y. findy, given x=6. yonxin 4=11.9-1.3x => y(6)=11.9-1.3(6) - 11.9-7-8=4.1 find x, siven 4=6xmyin x=5-264-0.2834=>x(6)=5-264-0.283(6) = 3.56.

$$y = 11.9 - 1.3 \times .$$
 $y = 11.9 - 1.3 \times .$
 $y = 11.9 - 1.3$
 $y = 11.9 - 1.3$