	Tage No.
	Name: - Nitin Panday class: 07B Roll No: 44 Sub: AMI-TV
	Tutorial No:-06 Group:-00
	Questions:
9 1	IF Tr= Ty= T and the angle between the lines of regressions is tan 3. Find correlation.
2)	Find the Correlation coefficient between n by when the lines of regression one 2n-9y to=0 x-2y fi=0
3)	Calculate the rank correlation coefficient from the following data [X: 10 15 18 15 40 Y: 25 18 27 27 50 27
4)	Calculate the correlation coefficient for the following height (in constinction) of formercy) and their sons (4)
	X CT 66 67 67 68 69 70 72 CT 68 CT 68 72 72 69 71
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	5)(given Ta	6y =	57 +90 Fi	, 157 -	· 'y =	130		
					ii)	y Ty ²	_		
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The angle between two lines of regorssion

Hen

$$3 = \begin{pmatrix} (-x^2) & \sqrt{x} \\ \sqrt{z} \end{pmatrix}$$

$$3 = \frac{1-x^2}{x^2} \times \frac{\sqrt{z}}{z^2}$$

$$\frac{3}{7^2} = \frac{1-x^2}{x^2} \times \frac{7^2}{202}$$

$$\gamma = -6 \pm \sqrt{36+4}$$

2)
soil Given lines of regressions are
$$2n-9y + 6 = 0$$

we know that, r = + Ibny byn

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$$2n - 9y + c = 0$$

$$9y = 2n + 6$$

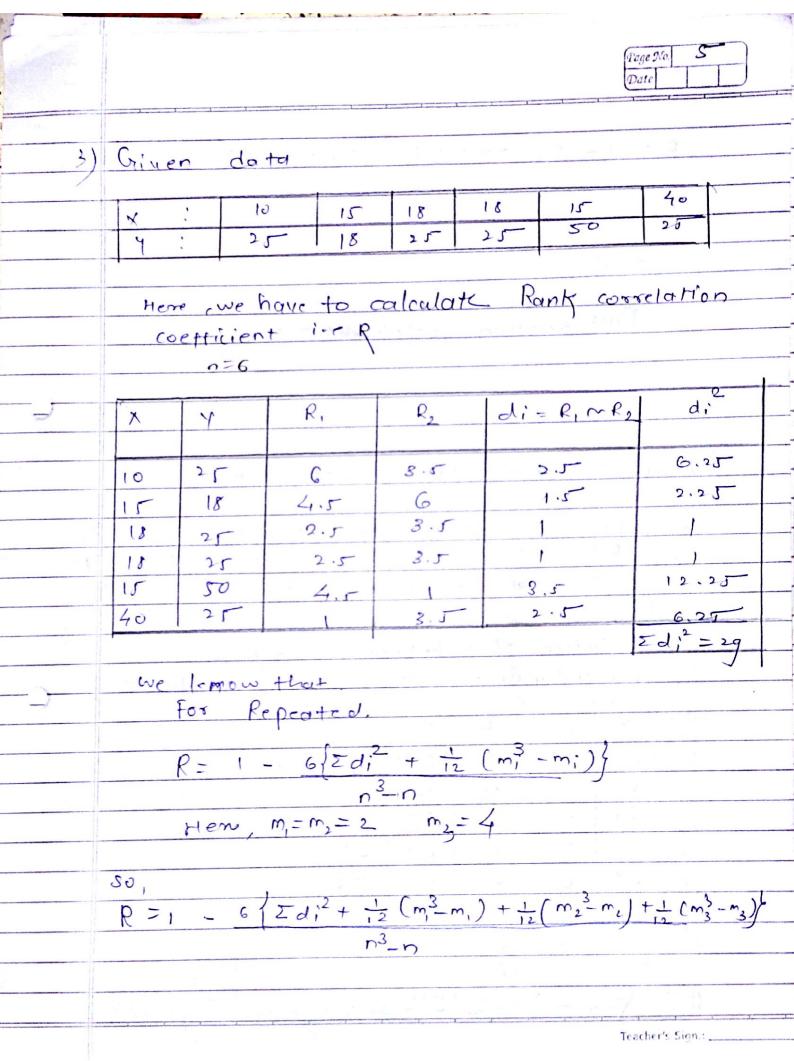
$$y = 2n + 6$$

$$y = 2n + 6$$

$$= + \frac{2 \times 2}{9}$$

$$= + \frac{4}{9}$$

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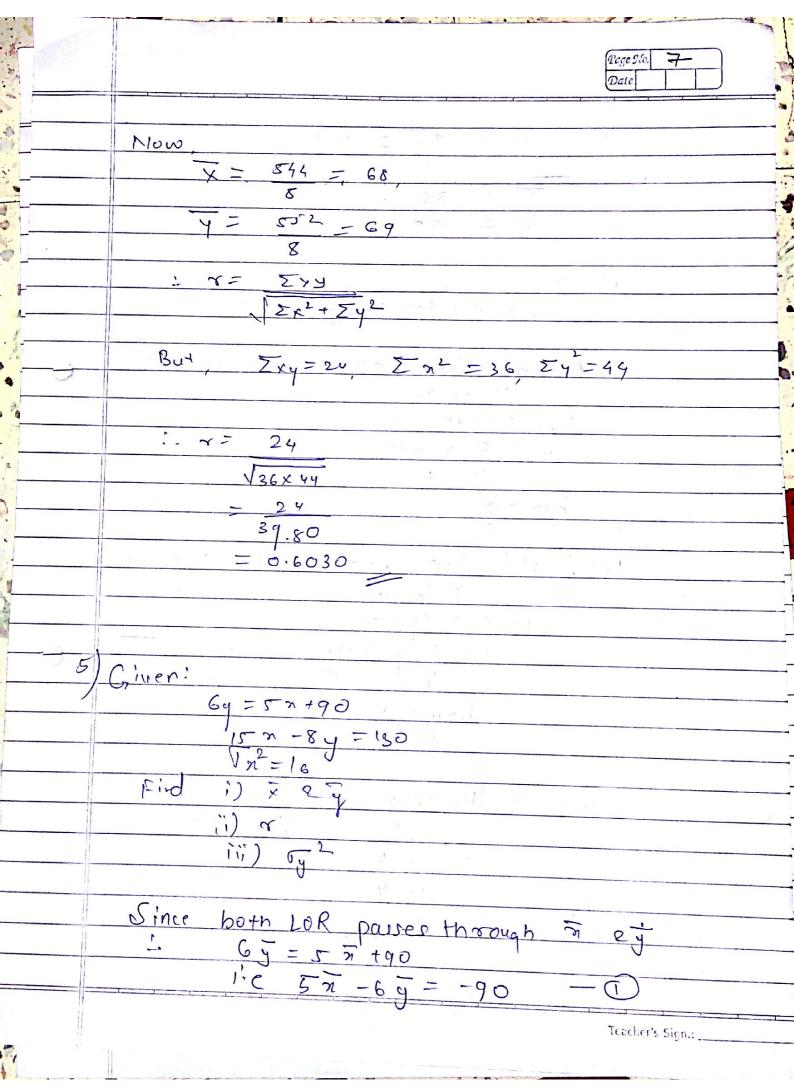
$$R = 1 - 6 \left\{ 29 + \frac{1}{12} \left(2^{3} - 2 \right) + \frac{1}{12} \left(2^{3} - 2 \right) + \frac{1}{12} \left(4^{3} - 4 \right) \right\}$$

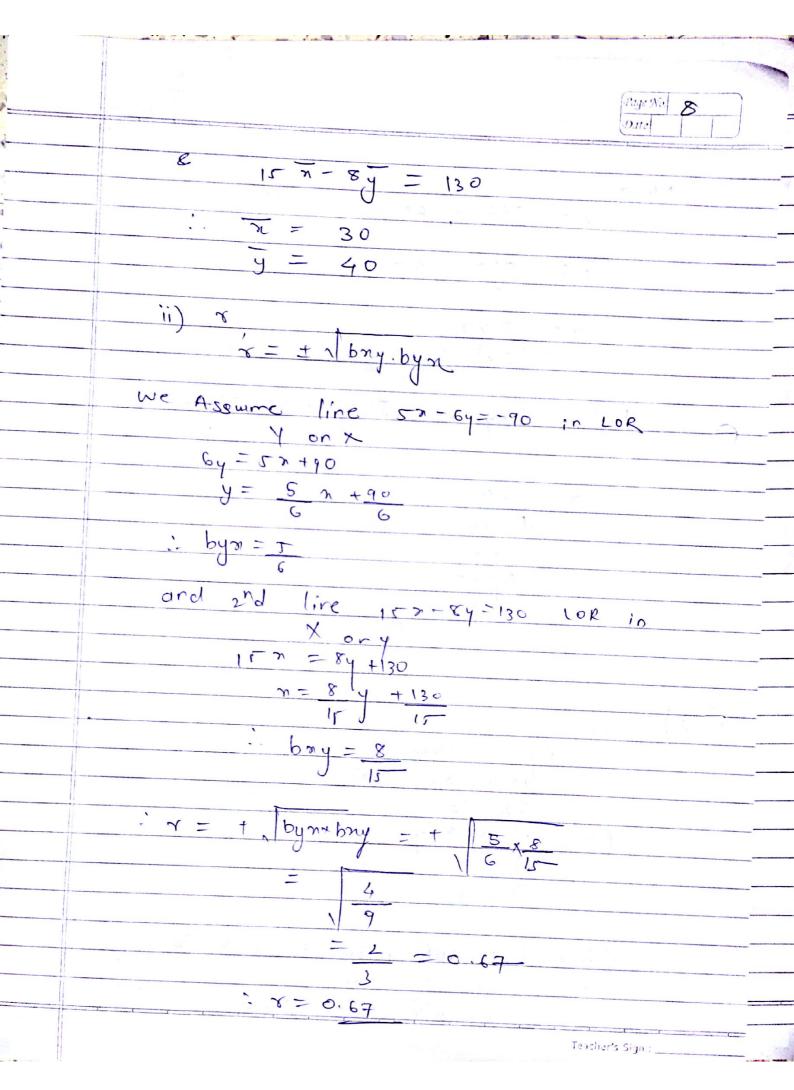
$$6^{3} - 6$$

.. Rank relation coefficient = 0

x: 65 6c 67 67 68 69 70 72 y: 67 68 65 68 72 72 69 71 X-height of fothers, Y-sheight olsoss 8=1

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		1				Per h	9	product	
+	Sr.	Demand in Ont.			Y-Y, Y=69				
	N.L.	×-	X, X-		TV		42		
	No.	X	26	1 n2		1	-		-
	i	65	-3	9	67	-2	4	Ğ	
	2	66	- 2	4	68	-1	1	2	
Н		67	-	1	65	-4	01	4	
	3				-				
	r	67	-1	1	68	-1	,	1	
	4	68	0	0	72	73	9	0	
	5	00	0		72		9	3	
	G	69	+1	1	7	73	J		
	7	70	42	4	69	0	0	0	
-		72	+4	16	71	+2	4	C	
	8	,	1		THE REAL PROPERTY.		2 /	Iny = +24	
	1=8	IX=	544 I	$-x^2=36$	> Y= 5	57 4 2	y=44	C 114 - 1 - 1	argue 4
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	111) 78 = 16
	: . 5 = 4
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AND	we know that
	Ric of youx byn- ox to
	1
	and R.C of Xony bry = TX Tx
9	
	: byn - 8 x 54
	:. byn = 8 x 59
	5 = 2 x Ty 6 3 4
	:.
	$\frac{1}{\sqrt{y^2-25}}$
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