



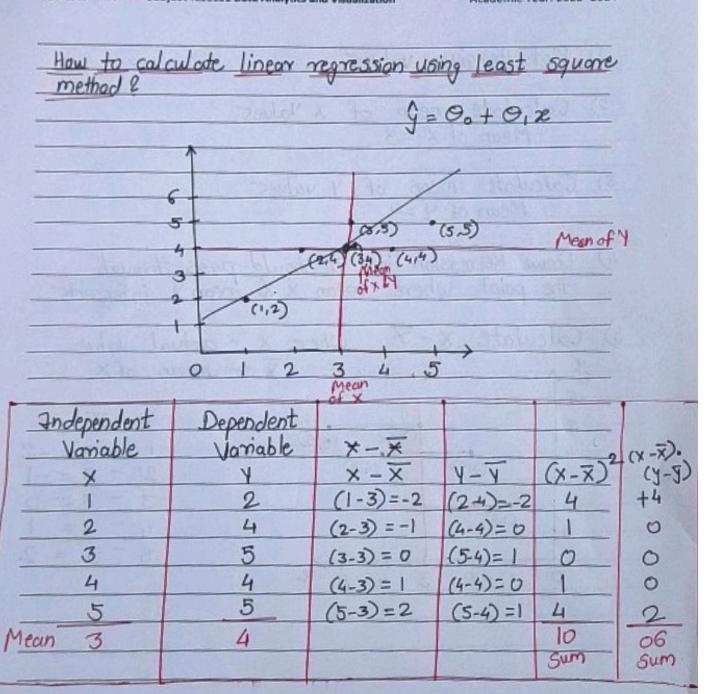
#### A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering



Semester: VI Subject: CSC601 Data Analytics and Visualization

Academic Year: 2023-2024



Subject Incharge : Prof. Anagha Aher Page No.\_

Department of CSE-Data Science | APSIT



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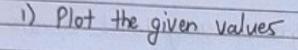
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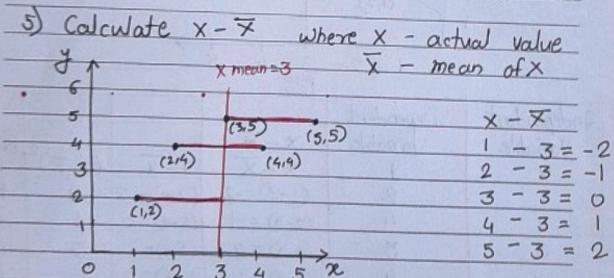


Semester: VI

Subject :CSC601 Data Analytics and Visualization Academic Year: 2023-2024



- 2) Calculate mean of x Values Mean of x = 3
- 3) Calculate mean of 4 values Mean of y =4
- 4) Draw Regression line, it should pass through the point where mean x & mean y intersects



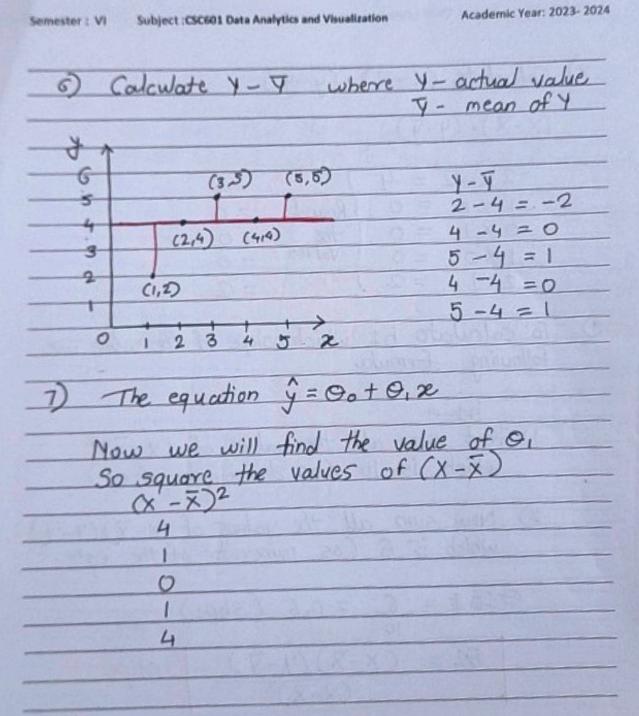
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8) Calculate (x-x).(y-y)
$(x-\overline{x})\cdot(y-\overline{y})$
-2x-2=-4) = 4
$-1 \times 0 = 0    Round = 0$
$0 \times 1 = 0  the = 0$ $1 \times 0 = 0  values = 0$
$-2\times 1 = 2) = 2$
3) To calculate b1 which slope of the line use
3) To calculate b1 which slope of the line use following formula
ar as a comment and a
<u>h1</u> =
1) First sum all the values of $(x-x)^2$
uhich is 10 (as denominator of eq.)
2) Now sum all the values of (X-X)(Y-Y)
2) Now sum all the values of $(X-\overline{X})(Y-\overline{Y})$ which is 6 (as numerator of the egn
$\Theta1b4 = 6 = 0.6 (Shope)$
Dr. C. E. C.
$691 = (x-\overline{x})(y-\overline{y}) \qquad 6lope$
$(X-\overline{X})^2$





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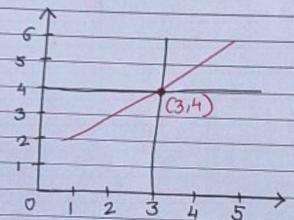
Semester: VI

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Academic Year: 2023- 2024

10) Now we need to find value of Oo

we know that the regression line has to puss point (3,4) which is mean of x & mean of y.



g=00+0,2

From this we

Know that of  $\hat{y} = 4$  X = 3Also we have calculate  $\Phi$ , in

previous step 01=0.6

$$\hat{y} = \theta_0 + \theta_1 \approx$$
 $4 = \theta_0 + (0.6)(3)$ 

$$4 = 00 + 1.8$$
  
 $90 = 4 - 1.8$ 

$$0_0 = 2.2$$

Intersept

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11) $\hat{y} = \theta_0 = 2.2$ $\theta_1 = 0.6$ $\hat{y} = (2.2) + (0.6) 2$		A - D - 0 - 0	
$\hat{y} = (2.2) + (0.6) z$	11)	9-00-6.6	
$\hat{y} = (2.2) + (0.6) 2$		$\Theta_1 = 0.6$	GUALIF STREET
		Q=00)+(00)p	0 0 0 0 0 0
		J = (2.2) + (0.6) &	
		0.00	
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	- 100 =	2	
	-	X	
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