

TER let the denote mean till im somple 11: = (mey (e-1) + x; A (>0 and you man, TO CONTRACTOR TO E (12) - E(13) 512 pr - (11)2 till i and the denote the mean of square of somples and is in coldealwholed as -Siz Su ((4) + x12 2 [5 (1) + 1402] ((4) + x12 562 500 + DCE RO Mean till (the pouple of the sign 632 (0.200) = (0.4) - E(x)E(x) (52) = (c) [(52)" + xinying + xiyi -

Ems2	Let us consider xi, y. ER2
	Let be regression line be your xxtc
	wad = 4: 4:
	word = y'- y' € = ₹ (y'- y') ²
	≥ e= < (yi- mni-c)2
	r . 2 1x2
	Differentiating must c de = = = 2(yi-mxi-c) = 0
	AG = S O(T) DOON () TO
	dc = 2(9(-11)1(-c) =0
	=) \(\frac{1}{2} \) \(\frac{1}{2} \) \(\frac{1}{2} \) \(-\frac{1}{2} \) \(-\frac{1} \) \(-\frac{1}{2}
	3 291 -11 211 = NC
	⇒) (= 54.°- M 5 7
	=) C = \(\frac{\fir}{\fin}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fi
	= 5U.' - W ZY
	$= \underbrace{\xi y_{i}}_{N} - \underbrace{M}_{N} \underbrace{\xi \chi}_{N}$
	2 py - 4px
→	· c= py-Mpx
	or copy in a second of the sec
	Diameter his kings with the
	Differentiating ust m. $d \in \mathbb{R} = 0$ $\geq 2(\tilde{y_i} - m_{x_i} - c)(-x_i) = 0$
	1M 5 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
-	≥ ≤ Ni (yi- M Ni-c) =0
	3 / 2 / 2 / 2 / 2
	=> \(\gamma\) \(
	Now substituting c.
	The Action Color of the Color o



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	Exy -m = x = (4px - ky) = x = 0
	0=(x3xq+4x3-) M+x3y4-px6x)=0
	=) M= <u>py \(\frac{1}{2} \) \\ \tau \(\frac{1}{2} \) \\ \tau \(\frac{1}{2} \) \\ \\ \tau \(\frac{1}{2} \) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u>
	$= \frac{1}{N} H = \frac{2y \xi_{\chi}}{N} - \frac{2yy}{N} / \frac{(\xi_{\chi})^2 - \xi_{\chi^2}}{N}$
	$\Rightarrow M = \underbrace{\xi y \xi \chi}_{N^2} - \underbrace{\xi \chi y}_{N} / \left(\underbrace{\xi \chi}_{N}\right)^2 - \underbrace{\xi \chi^2}_{N}$
	$\Rightarrow) H = \frac{\xi_{\chi y} - \xi_{\chi} \xi_{\chi}}{N} - \frac{\xi_{\chi} \xi_{\chi}}{N} - \frac{(\xi_{\chi})^2}{N}$
	$\Rightarrow 14 = E(\chi y) - E(\chi)E(y) = 6\chi y$ $E(\chi^2) - E(\chi)^2 = 6\chi^2$
	Hence equation of line is y=mx+c
	$= \frac{6xy}{6x^2} + \frac{6xy}{6x^2} + \frac{6xy}{6x^2} = \frac{6xy}{6x^2}$
	Hence we can express regression line is term of 4 906.
W3	[3] [4] [5] [4]
	(= \(\frac{2}{x}\)\(\chi_1\)\(\chi_1\)