Lurue Fifting.

1) Illing st. line by deast equare:

y=a+lex

Ey = na + bEx

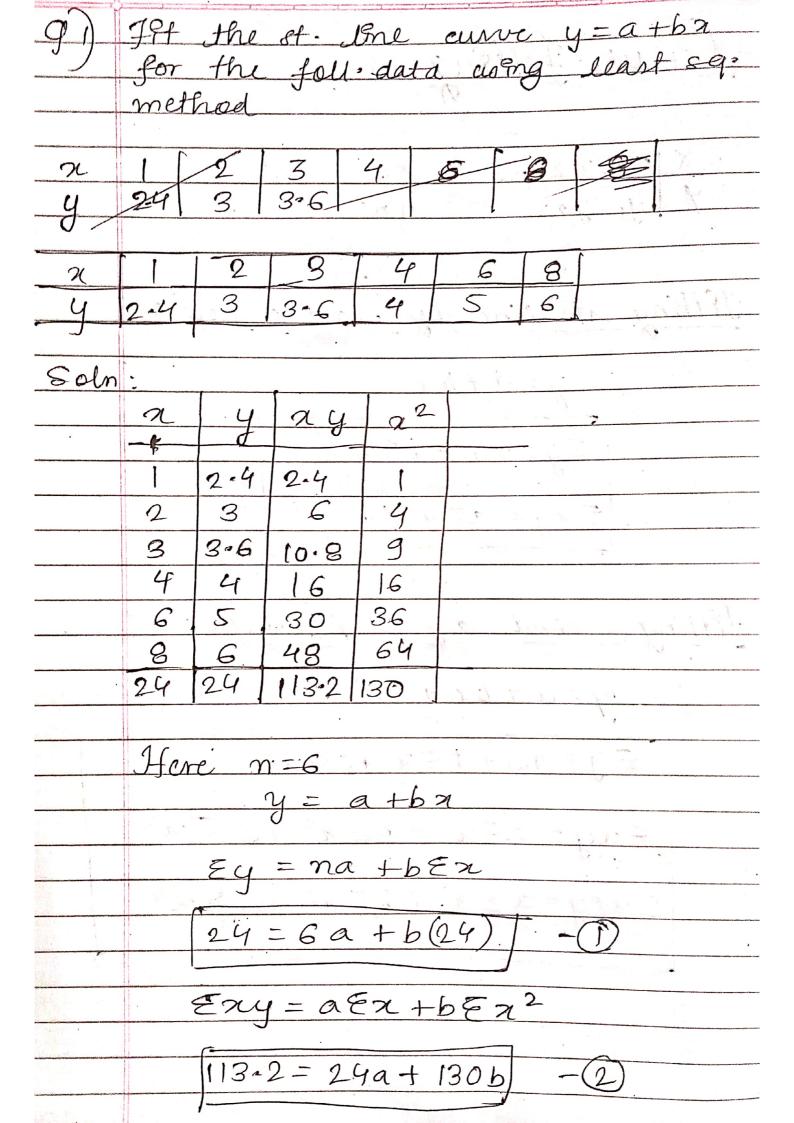
2) Fefteng second degree parabola:

 $y = a + lex + cx^2$

Ey=na+bEz +CEz2.

Exy= a=x + b=x2 +C =x3

 $\Xi x^2 y = a \Sigma x^2 + b \Sigma x^3 + C \Sigma x^4$



solveng, a=1-9765

b=0.5059

y = 1.9765 a+0.5059 B2

of fet a curve of the form y= a+bx+cx2 for foll data using least sq. method

						7
7	0		2	13	4	
ч	9	1.8	1.3	2.5	6.3	
					'	

Soln:

				THE RESERVE THE PARTY OF THE PA	ACTOR DESCRIPTION NO. OF THE PARTY NAMED IN	The state of the s	*	- 8
STATE OF THE PERSON	N	lu	àca	224	22	23	24	-
and the second second	6	9	0	0	0	0	0	-
-	1	1.8	1-8	1.8	1	1	1	-
-	2	1-3	1.3	5-2	4	8.	16	-
-	3	2.5	2.5	22-5	9	27	18	
A STATE OF THE PARTY OF THE PAR	4	6.3	6.3	100.8	16	64	256	i gener
Commission and the second	10	12.4	37-1	130.2	30	100	354	in acres

$$y = a + b \pi + c x^2$$

Egns:

5a+10b+30c=12-9 10a+30b+100e=37-1 30a+100b+354c=130.3

On solving, a=1.42 b=-1.09 c=6.55

4=1.42-1.070 +0-55 $y = ab^{\alpha}$ Normal = AEA + BEAZ

<u>a</u>	101 10
9	If the curve y=all ley resing least sq= method to the foll- data
	least 89° method to the foll- data
	& frend y at x=8
	1101011-1017
2	1 2 3 4 5 6 7 87.97 113 129 202 195 193
4	87,37,113 129 x02 1193 193
	1 - 1 21
	$y = ab^n$
	1 - 1
	log y = loga +n logb
6 1	V
	$Y = A + B\pi$
	7 XI-
	reg-
	x=x 4 4=loge xy x2
	X=x y y=logy xy x2 1 87 4.4659 4.4659 1
	2 97 4.5747 9.1444 4
	3 113 4.72 79 14.1822 9
	4 129 4-8598 14-4392 16
	5 201 5-3083 26.5913 25
	6 195 5-2730 31-6380 36
	_ 7 , 193, 5·2627 36·5388 49
	28 34.9718 142.2549 142
	Putting in Egg
	7A+26B=3404713
	28A + 142-2549B
	2A 28A+142B = 142-2549
	A=4.3 B=0.15598

A = loge a $a = e^{4-3}$. a = 73 - 6999b = e^B = e^{0.1559}B. b=1-1688 y=ab2 $y = (73.698)^{2}$ $y = 73.6998 (1.1688)^{2}$ Multeple Regression 2=a+6x + cy Ez=na+bEz.+cEg EXZ= aex fbex2+cexy EYZ= a Ey fb Eny + C Ey2