

y=[yen.	eg.] -	MUL	(
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	X1=R1,04	Xz=Cin nA	X3=R2,04
X; °	100	680	500
x: min	70	600	450
X: MOX	130	760	550
2:	30	80	50

No	R,	C,	Re	yit	y: 2	4:3	yi !	52(41)	52 (4)	52/8i)	Gi
1	-	_	-	3,3	3,5	4.5	3.77	0,41	0,20	0.008	4.41
2	+	_	-	3,4	3,9	3,9	3.73	0,08		1	4.21
3	_	+	_	3,2	2,5	2,8	2,83	0,12			2,89
4	+	+	-	2,8	2,5	3,0	2,77	0,06			2.69
5	-	_	+	4,4	5,2	5,8	5,13	0,49	The second second second second		5.55
6	+	-	+	4.0	4.4	4.5	4.30	0,07			4.51
7	_	+	+	2,8	3,4	3,8	3,33	0,25			4.03
8	+	+	+	3,4	3,8	3,0	3,40	0,16			2.99

1)
$$b_0 = (4.5 + 3.9 + 2.8 + 3.0 + 5.8 + 4.5 + 3.8 + 3.0) / 8 = 3.91$$
 $b_1 = (-4.5 + 3.9 - 2.8 + 3.0 - 5.8 + 4.5 - 3.8 + 3.0) / 8 = -0.31$
 $b_2 = (-4.5 - 3.9 + 2.8 + 3.0 - 5.8 - 4.5 + 3.8 + 3.0) / 8 = -0.76$
 $b_{12} = 0.16$; $b_3 = 0.36$; $b_{13} = -0.21$; $b_{23} = -0.11$
 $b_{123} = -0.04$ \longrightarrow $y = 3.91 - 0.31 \times 1 - 0.76 \times 2 + 0.16 \times 1 \times 2 + 0.36 \times 3 - 0.21 \times 1 \times 3 - 0.04 \times 1 \times 2 \times 3$
2) $t = 2.13$ pas $d = 0.95$ $u = 0.95$

3)
$$S_{ng}^{2} = \frac{3}{8-5} \sum_{i=1}^{N} (y_{i3} - \hat{y}_{i})^{2}$$

 $y_{13} = y_{i5} \quad \hat{y}_{i} = 3,31 - 0,31(-1) - 0,76(-1) + 0,36(-1) - 0,26(-1) + 0,36(-1) - 0,21(-1)(-1) = 3,31 + 0,31 + 0,76 - 0,36 - 0,21$
 $S_{ng}^{2} = 0,324 \quad \text{fp} = \frac{0,324}{0,2} = 1,62$
 $F_{Np} = 3,2 \quad \text{upp} \quad d = 0,95 \quad \text{fap} = 8-3 = 5 \quad \text{ufy} = 8/3-1) = 16$
 $1,62 < 3,2 \rightarrow MM \text{ agen barka}$

Pue, 22

$$B_{i} = 26i 27$$

$$Y = 6_{0} + 6_{1} \times_{1} - 6_{2} \times_{2} 28$$

$$Y = 6_{0} + 6_{1} \times_{1} - 6_{2} \times_{2} + 6_{12} \times_{1} \times_{2} 29$$

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Nº	X	X2	y= 10 +2×1+3×2
l	-	_	10 - 2 - 3 = 5
2	+	-	10+2-3=9
3	-	+	10-2+3 = 11
4	+	+	10+2+3 = 15

$$B_1 = 9-5 = 4$$

 $B_1 = 15-11 = 4$
 $B_2 = 11-5 = 6$
 $B_3 = 15-9 = 6$

$$B_1 = 2$$

 $B_1^+ = 6$

$$N_{-}^{\circ}$$
 | \times_{1} | \times_{2} | $Y = 10 + 2 \times_{1} + 3 \times_{2} + 1 \times_{1} \times_{2}$
 $1 - - 10 - 2 - 3 + 1 = 6$
 $2 + - 10 + 2 - 3 - 1 = 8$
 $3 - + 10 - 2 + 3 - 1 = 10$
 $4 + + 10 + 2 + 3 + 1 = 16$

$$X_2 = -1$$
 $B_1 = 8 - 6 = 2$
 $X_2 = +1$ $B_1 = 16 - 10 = 6$
 $X_1 = -1$ $B_2 = 10 - 6 = 4$
 $X_1 = +1$ $B_2 = 16 - 8 = 8$

$$\begin{bmatrix}
B_{2} = 4 \\
B_{2} = 8
\end{bmatrix}$$
(30)

$$\begin{array}{lll}
B_{1} &= B_{1} - B_{12} &= 2(b_{1} - b_{12}) \\
B_{1}^{+} &= B_{1} + B_{12} &= 2(b_{1} + b_{12}) \\
B_{2}^{-} &= B_{2} - B_{12} &= 2(b_{2} - b_{12}) \\
B_{2}^{+} &= B_{2} + B_{12} &= 2(b_{2} + b_{12})
\end{array}$$

$$\begin{array}{lll}
B_{1}^{+} &= B_{2} + B_{12} &= 2(b_{2} + b_{12}) \\
B_{2}^{+} &= B_{2} + B_{12} &= 2(b_{2} + b_{12})
\end{array}$$

$$B_i^{\mp} = 2(b_i \mp b_{ij})$$
 (32)

Puc. 26

 $y = 10 + 2x_1 + 3x_2 + x_1 x_2$

 $\beta_{1} = 2(2-1) = 2$ $\beta_{1}^{+} = 2(2+1) = 6$ $\beta_{2}^{-} = 2(3-1) = 4$ $\beta_{3}^{+} = 2(3+1) = 8$

4=10-2x1-3x2 + X1X2

 $Y = 10 - 2x, + 3x_2 + x_1x_2$

 $y = 10 - 2x_1 + x_1 x_2$

 $y = 10 + 2 \times 1 - \times 1 \times 2$

 $y = 10 + 2x_1 + 3x_2 - x_1x_2$

 $y=10-2x_1-3x_2-x_1x_2$ $B_1 = 2(-2+1)=-2$ $B_1^{\dagger} = 2(-2-1)=-6$

 $B_{1}^{+} = 2(-2-1) = -6$ $B_{2}^{-} = 2(-3+1) = -4$ $B_{2}^{+} = 2(-3-1) = -8$

y=10-2x1+3x2 - x1 X2

 $\begin{array}{ll}
B_{1}^{-} &= 2(-2+1) = -2 \\
B_{1}^{+} &= 2(-2-1) = -6 \\
B_{2}^{-} &= 2(3+1) = 8 \\
B_{2}^{+} &= 2(3-1) = 4
\end{array}$

y = 10 +2 ×1 + X1 ×2

8 $B_1^- = 2(+2-1) = 2$ $B_1^+ = 2(+2+1) = 6$ $B_2^- = 2(0-1) = -2$ $B_2^+ = 2(0+1) = 2$

$$\overline{\lambda}_{i} = \overline{\chi}_{i}^{*} - \overline{\chi}_{i} \min = \overline{\chi}_{i} \max - \overline{\chi}_{i}^{\circ}$$

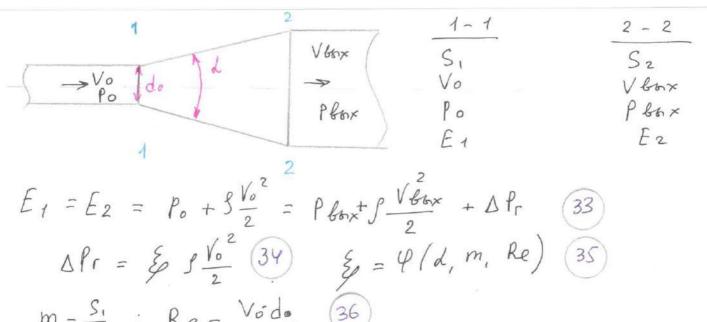
$$\overline{\chi}_{i} = \frac{\overline{\chi}_{i} - \overline{\chi}_{i}^{\circ}}{\overline{\lambda}_{i}}$$

3.
$$N^{\circ}$$
 \times_1 \times_2 \times_2 \times_2 \times_2 \times_2 \times_2 \times_3 \times_4 \times_4

5.
$$b_0 = \frac{1}{N} \sum_{i=1}^{N} y_i$$

 $b_1 = \frac{1}{N} \left[-y_1 + y_2 - y_3 + \cdots + y_N \right]$

6
$$B_1 = ?$$
 $B_1^{\dagger} = ?$ $B_2 = ?$ $B_2^{\dagger} = ?$ $B_3^{\dagger} = ?$ $B_3^{\dagger} = ?$



 $m = \frac{S_1}{S_2}$; Re = $\frac{Vodo}{ML}$ 36

20	d, sporg							
le os	4	6	8	10	12			
			m = 0,5					
1,51	0,135	0,121	0.112	0.107	0,109			
0	0,106	0,090	0,083	0,080	0.088			
2.0	0.082	0,070	0.068	0,062	0.062			

n5			or, come		
Re-103	4	6	8	10	12
		m	=0,25	107	
0.51	0.197	0,165	0,151	0,15+	0,174
1.0	154	0,126	0.119	0,120	0,131
2.0	0,120	0.101	0,096	0,096	0,107

L = 6 ... 10°

m= 0,25 ... 0,50

Re= 0,5.105... 1,0.105

No	XI = L	X2=m	X3= Re	y = 50
(_	_	_	0,165
2	+	-	_	0,157
3	-	+	-	0,121
4	+	+	-	0,107
5	_	_	+	0,126
6	+	_	+	0,120
7	_	+	+	0,000
8	+	+	+	0800

 $X_1^{\circ} = (6 + 10)/2 = 8^{\circ}$ $X_2^{\circ} = (0, 25 + 0.5)/2 = 0, 375$ $\frac{1}{x_3} = (0.5 + 1)/2 = 0.75.10^5$ $\bar{\lambda}_{1} = 2^{\circ} \quad \bar{\lambda}_{2} = 0,125$ A3 = 0,125 · 105

$$\mathcal{L} = \frac{\overline{\mathcal{L}} - 8}{2} = x_1 \qquad m = \frac{m - 0.325}{0.125} = x_2 \qquad \text{Re} = \frac{\overline{Re} - 0.75}{0.25} = x_3$$

$$b_0 = 0.121 \quad b_2 = -0.021 \qquad b_3 = -0.017 \qquad b_{23} = 0.002$$

$$b_1 = -0.005 \quad b_{12} = -0.001 \qquad b_{13} = 0.001 \qquad b_{125} = 0$$

g=0,121-0,005 d-0,021m-0,001 dm-0,017 Re+ +0,001 LRe +0,002 mRe

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