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[Assignment no 7]

(1) $b_{yx} = 2.8$ $b_{xy} = -0.5$

$r = \sqrt{b_{yx} \times b_{xy}} = \sqrt{2.8 \times -0.5} = \sqrt{-1.4}$

Since this is not real number

they cannot be the regression equation.

(2) $Y = ab^x$ $\boxed{Y = 0.7207 \times 1.3827^x}$

$\ln Y = \ln a + x \ln b$

$\ln Y$	X	$X \ln Y$	X^2	$(\ln Y)^2$
0	1	0	1	
0.13232	2	0.36464	4	
0.58778	3		9	
0.91629	4		16	
1.2809	5		25	
1.5476	6		36	
1.8871	7		49	
2.2083	8		64	
	ΣX 36		204	

$Y = -0.3823 + 0.3241X$

$\ln a = -0.3823$

$a = 0.7207$ $b = 1.3827$

$\ln b = 0.3241$

Ans $\boxed{y = 0.7207 \times 1.3827^{x}}$

(3) I think the equation (1) is incorrect

Please check the Question