

※38回 2組 問4

$$S_{xx} = \sum x^2 - \frac{(\sum x)^2}{n} = 3542.83 - \frac{237.9^2}{20} = 713.0095 \div 713.01 \text{ (㊦)}$$

$$S_{yy} = \sum y^2 - \frac{(\sum y)^2}{n} = 88.26 - \frac{37.2^2}{20} = 19.068 \div 19.07 \text{ (㊦)}$$

$$S_{xy} = \sum xy - \frac{\sum x \cdot \sum y}{n} = 546.7 - \frac{237.9 \times 37.2}{20} = 104.206 \div 104.21 \text{ (㊦)}$$

(22) ㊦

(23) ㊦

(24) ㊦

	S	ϕ	V	F_0
R	<u>15.23</u> (㊦)	1	15.23	<u>72.52</u> ** (㊦) > 8.29
e	3.84	18	0.21	—
T	19.07	19	—	—

高度有意

(㊦) 2+

$$S_R = \frac{S_{xy}^2}{S_{xx}} = \frac{104.21^2}{713.01} = 15.2308 \div 15.23 \text{ (㊦)}$$

$$S_e = S_T - S_R = 19.07 - 15.23 = 3.84$$

$$V_e = S_e / S_{\phi} = \frac{3.84}{18} = 0.2133 \dots \div 0.21$$

$$F_0 = V_R / V_e = \frac{15.23}{0.21} = 72.5238 \div 72.52 \text{ (㊦)}$$

$$R^2 = \frac{S_R}{S_{yy}} = \frac{15.23}{19.07} = 0.7986 \text{ (㊦)}$$

$$F(\phi_R, \phi_e; 0.01) = F(1, 18; 0.01) = 8.29$$

$$\text{点: } \beta_1 = \frac{S_{xy}}{S_{xx}} = \frac{104.21}{713.01} \div 0.146$$

$$\text{区間: } \beta_1 \pm t(\phi_e, \alpha) \sqrt{\frac{V_e}{S_{xx}}}$$

$$0.146 \pm t(18, 0.05) \sqrt{\frac{0.21}{713.01}} = 0.146 \pm 2.101 \times 0.0172$$

$$0.03605$$

$$0.10995 \sim 0.18205 \quad 0.1101 \sim 0.1823 \text{ 8+5カゝい。}$$

(㊦)

(28) ㊦

(29) ㊦