01-005

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$$(\qquad , \qquad \qquad t=21^{\circ}C)$$

$$P = c \cdot h \cdot \frac{\gamma_1}{\gamma_2} \cdot K \cdot 9.81, \quad : \quad$$

•
$$c = 1$$

•
$$K = 0.2$$
 (,

•
$$\gamma_1 = 0.8066 / ^3$$
 —

•
$$\gamma_2 = 0.8095 / ^3 -$$

$$< P >= 75.4 \quad , \ \sigma_p = \sqrt{\frac{1}{n(n-1)} \sum_{i=1}^n (P_i - < P >)^2} = 0.5 \quad \to < P >= 75.4 \pm 0.5$$

4)
$$(\Delta P = \frac{2\sigma}{R}) \qquad R = \frac{2\sigma}{< P>} = 0.59$$

$$: R_m = 0.6$$

$$< P_1 > = 206.8 \pm 2.4$$

6)
$$l_1 = 5.7$$
 —

$$< P_2 >= 355.4 \pm 0.4$$

$$l_2 = 6.2$$

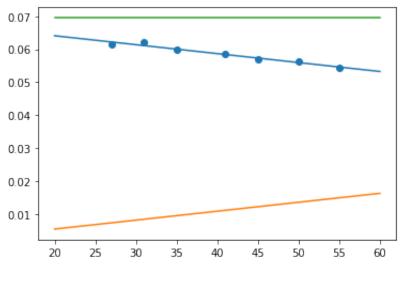
9)
$$\Delta h = h_2 - h_1 = 1.5 \quad . \qquad \Delta h', \label{eq:deltah}$$

$$: \Delta h' = \frac{\langle P_2 \rangle - \langle P_1 \rangle}{\rho g} = 1.5$$

10)
$$\sigma(t)$$
:

				41			
h, .	180	181	177	175	172	171	168
$P_{\mathfrak{m}}$,				342.1			
ΔP ,				195.3			
σ, /	0.062	0.062	0.060	0.059	0.057	0.056	0.054

11)
$$k = (-2.7 \pm 0.2) \cdot 10^{-4} \ / \ ^{\circ} \ ; \ b = (694 \pm 1) \cdot 10^{-4} \ / \$$



$$\begin{split} &-\frac{U}{F} = \sigma - t \cdot \frac{d\sigma}{dt} = \sigma - kT = b \; (\\ &-\sigma = k \cdot t + b \; (\\ &-q = -t \cdot \frac{d\sigma}{dt} = -k \cdot t \end{split}$$

$$12)$$
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