流体力学 3回目

- [1] (1) mV = 3. \frac{\tau}{4}d^28.8 fg, 運動量: 至9月282
 - (2) ベルヌーイの定理が、 $P_0 + \frac{1}{2} 9 V^2 = P_0 + \frac{1}{2} 9 (8 - u)^2$ V = [8 - u]

流量保存 +1),

$$Q = \frac{2}{8}d^{2}\theta_{0} = 2.\pi \hbar r \cdot (9 - U)$$

 $= \frac{1}{8}d^{2}\theta_{0} - \frac{1}{8}d^{2}\theta_{0}$

(3) 圧力最大の地点では、よどみ点わ、流速り ベルスーイの定理より、 Po + \frac{1}{2}8(8-4)^2 = Ps + \frac{1}{2}80^2 : Ps = Po + = P(8 - U)

$$\begin{pmatrix} 4 \end{pmatrix} & g = \frac{\partial W}{\partial z} = \boxed{U + \frac{m}{2}}$$

(5)
$$g = U + \frac{m}{2} = 0 \rightarrow Z = -\frac{m}{U} = \chi + i\theta$$

$$i \cdot \xi \in \mathcal{H} \stackrel{\text{left}}{=} \left(\mathcal{A}, \forall \right) = \left(-\frac{m}{U}, 0 \right)$$

$$W_2 = m \log Z$$

$$Z = rei0 + 0,$$

$$W_2 = m \log (re^{i\vartheta}) = m \log r + 2m\theta = \emptyset + 2\psi$$

$$\rightarrow \beta = m \log r, \quad \psi = m\theta$$

$$\int \theta = \frac{\partial x}{\partial x} = \frac{1}{1} \frac{\partial \theta}{\partial x} =$$

$$Q_2 = 2\pi r \cdot U_{\theta} = 2\pi m$$

$$\frac{1}{1} = \sqrt{\frac{1}{1}} = \sqrt{\frac{1}} = \sqrt{\frac{1}{1}} = \sqrt{\frac{1}{1}} = \sqrt{\frac{1}{1}} = \sqrt{\frac{1}} = \sqrt{\frac{1}{1}} = \sqrt{\frac{1}} = \sqrt{\frac{1}}} = \sqrt{\frac{1}} = \sqrt{\frac{1}} = \sqrt{\frac{1}} = \sqrt{\frac{1}} = \sqrt{\frac{1}}} = \sqrt{\frac{1}} = \sqrt{\frac{1}}$$

(2)
$$y = 0$$
 or $z = 0$ v $z = 0$ v $z = 0$ or $z = 0$ v $z = 0$ v

平行流的、
$$V=0$$
 行ので、 $\psi=const$ $y=knx\pm, V=0$ なので、 $\psi=const$

$$\left(3\right)_{U} = \frac{G}{2D} \left(h \cdot y\right) - 0$$

$$\lambda = 11A + C$$

$$U = \frac{c_1}{2D} \vartheta \cdot \left(-\frac{v}{u}\right) \qquad \frac{dP}{dx}$$

$$= -\frac{gh}{2DU} \cdot \left(-\frac{dP}{dx}\right)$$

$$\Rightarrow U^2 = \frac{9 \, \text{M}}{2 \text{D}}, \frac{d \hat{P}}{d x}$$

$$= -\frac{yh}{2DU} \cdot \left(-\frac{dP}{dx}\right) \qquad \therefore U = \begin{bmatrix} y\mu & dP \\ 2D & dx \end{bmatrix}$$