教学B

$$\frac{\partial}{\partial x} = \chi + \lambda \dot{y}$$

$$\frac{\partial}{\partial x} = \chi - \lambda \dot{y}$$

$$\frac{\partial}{\partial x} = \frac{\partial \dot{y}}{\partial x} \frac{\partial}{\partial y} + \frac{\partial \dot{y}}{\partial x} \frac{\partial}{\partial y}$$

$$= \frac{\partial}{\partial y} + \frac{\partial}{\partial y} + \frac{\partial}{\partial y} + \frac{\partial}{\partial y} + \frac{\partial}{\partial y}$$

$$= \frac{\partial}{\partial y} + \frac{\partial}{\partial y} + \frac{\partial}{\partial y} + \frac{\partial}{\partial y} + \frac{\partial}{\partial y}$$

$$= \lambda \frac{\partial}{\partial y} - \lambda \frac{\partial}{\partial y}$$

2 あるから、

$$\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} = \left(\frac{\partial}{\partial y} + \frac{\partial}{\partial y^2}\right)^2 - \left(\frac{\partial}{\partial y} - \frac{\partial}{\partial y^2}\right)^2$$

$$= \left(\frac{\partial^2}{\partial y^2} + 2\frac{\partial^2}{\partial y^2} + 4\frac{\partial^2}{\partial y^2}\right)^2$$

$$- \left(\frac{\partial^2}{\partial y^2} - 2\frac{\partial^2}{\partial y^2}\right)^2 + \frac{\partial^2}{\partial y^2}\right)$$

$$= 4\frac{\partial^2}{\partial y^2}$$

(ii)
$$\frac{\partial}{\partial z} = \left(\frac{\partial r}{\partial x}\right)_{x} \frac{\partial}{\partial r} + \left(\frac{\partial \varphi}{\partial x}\right)_{y} \frac{\partial}{\partial \varphi}$$

$$\frac{\partial}{\partial x} = \left(\frac{\partial r}{\partial x}\right)_{x} \frac{\partial}{\partial r} + \frac{\partial \varphi}{\partial x} \frac{\partial}{\partial \varphi}$$

$$\left(\frac{\partial \xi}{\partial \xi}\right)_{\xi^*} = e^{ik\theta}, \left(\frac{\partial \xi}{\partial \theta}\right)_{\xi^*} = \frac{1}{12}e^{ik\theta}, \left(\frac{\partial \xi}{\partial \xi^*}\right)_{\xi^*} = e^{ik\theta}, \left(\frac{\partial \xi}{\partial$$

$$\frac{\partial}{\partial \xi} = \frac{\partial}{\partial r} \frac{\partial}{\partial r} - \frac{\dot{r}}{re^{\lambda p}} \frac{\partial}{\partial r}$$

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$$\overline{\Phi}(\varphi) \frac{\partial^2 R}{\partial r^2} + \frac{\overline{\Phi}}{r} \frac{\partial R}{\partial r} + \frac{R(r)}{r^2} \frac{\partial^2 \overline{\Phi}}{\partial \varphi^2} = 0.$$

$$\frac{d}{dt} \frac{\partial L_3}{\partial z_k} + \frac{L}{dt} \frac{\partial L}{\partial k} = -\frac{L_3}{b} \frac{f d_3}{dz_k}$$

$$\frac{1}{r^2} \frac{3r^2}{3^2k} + \frac{1}{r} \frac{3k}{3^2k} = -\frac{1}{r} \frac{3r^2}{3^2k} = 0$$

でのを引荷きす

$$\frac{3\sqrt{3}}{3\sqrt{5}} + \sqrt{4} = 0$$

$$\frac{3\sqrt{5}}{3\sqrt{5}} + \sqrt{4} = 0$$

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また. 豆(217+19) = 豆(19) E1

$$\bar{\mathbf{E}} = \theta\left(\frac{1}{2} \sin 2\theta\right) = \frac{1}{2} \left(\frac{1}{6} \sin 2\theta\right) = \frac{1}{2} \left(\frac{1}{6} \cos 2\theta\right) = \frac{1}{2} \left(\frac{1}{6$$

$$\sqrt{(\lambda-1)}L_{\lambda-5} + \frac{1}{L} \cdot \sqrt{L_{\lambda-1}} - \frac{1}{L_5}\alpha \cdot L_{\lambda} = 0$$

$$A_1 = \frac{3a}{2} = B_1$$
 $B_2 = \frac{5a^2}{2\lambda} = -A_2$

$$INEFIL.$$
 $N(r_1 e) = r^{-1} \left\{ \frac{3a}{e^{-\lambda \theta}} \left(\frac{-\lambda \theta}{e^{-\lambda \theta}} \right) \right\} + r^{-2} \left\{ \frac{5a^2}{2\lambda} \left(\frac{\lambda \theta}{e^{-\lambda \theta}} \right) \right\} \right\}$

$$= \frac{3a}{r} \cos \rho + \frac{5a^2}{r^2} \sin 2\theta$$