

編号: 中初 が 17

姓名: 负 (a). $\phi = a_0 + b_0 \ln p + \sum_{n=1}^{\infty} \left[a_n p^n \sin (n\phi + \alpha_n) + b_n p^{-n} \sin (n\phi + \beta_n) \right]$ 「>a. ア→の対中有限.bn=b0=0. 可見での対中=0. ¢= a. + ξ anpⁿ sin(nφ+2n). XIIII : $\phi(\phi) = \phi(-\phi)$. $\Rightarrow \sin(n\phi + \lambda n) = \sin(-n\phi + \lambda n)$. $\lambda n = \frac{\pi}{2}$ q= = anprosno. acreb. \$\$\$\$\$2:4(4)=\$(-9). > dn=Bn=== 13p=010\$ \$=0. \$= \$ bzo lnp+ & Oznpn cosnp+ bznpncosnp p= cord \$ \$ \$ \$ \ a=0. b=0. \ \frac{1}{2} = 0 = 0. Hist2: In+Bn=2. 43= bang-nosno - Eoposo. $\frac{1}{2} \frac{1}{2} \frac{1}$ &a, = & az, - &b, a-2 - = b = 6 - 6 - 6 - 6 . Ebzo+ EE nazabacosnop. - EE, nbin b-100snop = $-\frac{1}{40}\sum_{n=1}^{\infty}n b_{3n}b^{-n-1}\cos n\phi - 606.005\phi$. $60z_1 - 6b_2b^{-2} = -60b_3b^{-2}$ $-\frac{1}{a}\frac{\partial \phi}{\partial \phi}\Big|_{p=a} = -\frac{1}{a}\frac{\partial \phi}{\partial \phi}\Big|_{p=a} = \frac{1}{a}\frac{\partial \phi$ ain = azn - bzn ai, = az, + bz - 520 pb - - 620 peb = 500 peb = 500

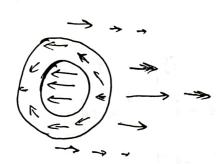
az, b" + bz = b; + E. b2.

Esind

$$\begin{cases} \xi_0 a_1 = \xi_1 a_2 - \xi_2 b_2 \\ b^2 \xi_1 a_2 - \xi_2 b_3 = -\xi_0 b_3 \\ a_1 = a_2 + \frac{b_2}{a_2} \\ a_2 b^2 + b_2 = b_3 - \xi_0 b^2 \end{cases}$$

$$|\alpha_{1}| = \frac{26^{2}E_{0}b^{2}}{(E_{0}E_{0})^{2}a^{2}-(E_{0}+E_{1})^{2}b^{2}}$$

(b)



$$b_{2} \rightarrow -E_{0} \frac{a^{2}k_{0}(E-E_{0})}{(E_{0}+E_{0})^{2}}$$

$$\alpha_{21} \rightarrow \frac{G_{0} E_{0}}{E_{0}+G_{0}}$$



4.10

