田 続き

(2)

(1) Jy

$$f_{\alpha_1} = \frac{2}{\pi} - \cos \pi \chi + \sum_{m=1}^{\infty} \frac{2(-1)^m}{\pi} \left\{ \frac{1}{2m+1} - \frac{1}{2m-1} \right\} \cos 2m\pi \chi$$

$$= \frac{2}{\pi} - \cos \pi x - \frac{4}{\pi} \sum_{m=1}^{\infty} \frac{(-1)^m}{4m^2 - 1} \cos 2m \pi x$$

$$0 = \frac{2}{\pi} - \cos \pi \, \circ \, - \frac{4 \cos \frac{(-1)^m}{2m}}{\pi \cos \frac{(-1)^m}{2m}} \cos \frac{2m\pi}{n} \, \circ$$

$$\frac{4}{\pi}\sum_{m=1}^{8}\frac{(-1)^m}{4m^2-1}=\frac{2}{\pi}-1$$

$$\sum_{m=1}^{\infty} \frac{(-1)^m}{4m^2-1} = \frac{1}{2} - \frac{\tilde{K}}{4}$$