(1)
$$f_{(2)} = \frac{\pi \cos \pi z}{\sin \pi z}$$

COST8. SINTE をマクローリン展開に

$$\left(\frac{\alpha_1}{Z} + \alpha_0 + \alpha_1 + \cdots\right) \left(\mathcal{T} Z - \frac{(\mathcal{T} Z)^3}{3!} + \frac{(\mathcal{T} Z)^5}{5!} - \cdots\right) = \mathcal{T} \left(1 - \frac{(\mathcal{T} Z)^2}{2!} + \frac{(\mathcal{T} Z)^4}{4!} - \cdots\right)$$

$$\alpha_{-1} \mathcal{R} \left(1 - \frac{\pi z^{2}}{3!} + \frac{\pi z^{3}}{5!} - 1\right) + \alpha_{0} \left(\pi z - \frac{\pi z^{3}}{3!} + \frac{\pi z^{3}}{5!}\right) + \alpha_{1} + \frac{\pi z^{3}}{5!} + \frac{\pi z^{3}}{5!} + \frac{\pi z^{3}}{5!} + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!} + \frac{\pi z^{3}}{5!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{5!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{2!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{2!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{2!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{2!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{2!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{2!}\right) + \dots = \mathcal{R} \left(1 - \frac{\pi z^{3}}{2!} + \frac{\pi z^{3}}{2!}\right) + \dots = \mathcal{R$$

$$-\frac{\pi}{3!} + \alpha_1 \frac{1}{\pi} = -\frac{\pi}{2!}$$

$$\Delta_1 = \mathcal{R}^2 \left(\frac{1}{2!} + \frac{1}{3!} \right) = -\frac{\mathcal{R}^2}{3}$$