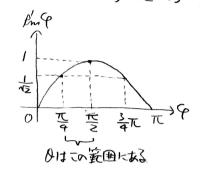
京大王里系 1963前期 (6)

$$\int_{0}^{x} ret dt = [Rint]_{0}^{x} = Rinx$$
 , $\int_{0}^{x} ret dt = [-ret]_{0}^{x} = -rexx + 1$
 $f(x) = Rinx + 2reex - 2 = \sqrt{5} (Rinx \cdot \frac{1}{45} + reex \cdot \frac{2}{45}) - 2 = \sqrt{5} Rin(x + 0) - 2$ (0rin0 = \frac{2}{45}, $re0 = \frac{1}{45}$, $re0 < 2\pi$ を満たす値

 $\beta''' \theta > 0$. $re\theta > 0$ \$1 $0 < \theta < \frac{\pi}{2}$. $t \leq 1$ $\beta''' \theta = \frac{2}{45} = \frac{1}{42} \frac{2\sqrt{2}}{\sqrt{5}} > \frac{1}{\sqrt{2}}$ $\beta''' \theta = \frac{2}{45} < 1$ \$1 $\frac{\pi}{4} < \theta < \frac{\pi}{2}$



左図より、「似の最小値は $\chi=0$ のとき または $\chi=\pi$ のとき f(0)=N5 pm 0-2=0 $f(\pi_{+})=N5 pm (0+\pi_{+})-2=N5 (pm 0 re \pi_{+} + re 0 pm \pi_{+})-2$ $=N5 (\frac{21}{15 \sqrt{2}}+\frac{11}{15 \sqrt{2}})-2=\frac{3}{15}-2>0$

よて チは)>0 ておおら 題意は示された