2024/6/6

$$0 = \frac{N}{N^{2}+1} \leq \frac{N}{N^{2}} = \frac{1}{N^{2}} + \frac{1}{N^{$$

 $\lim_{N\to\infty} \left(\frac{1}{n} \right)^{N} = \lim_{N\to\infty} \left(\frac{1}{n-1} \right)^{N-1} \times \lim_{N\to\infty} \left(\frac{1}{n-1} \right)^{N-1} = \lim_{N\to\infty} \left(\frac{1}{n-1} \right)^{N-1} =$

$$\frac{2}{(2^{2}+1)^{2}} = \frac{1^{2}+1-2(2n)}{(2^{2}+1)^{2}}$$

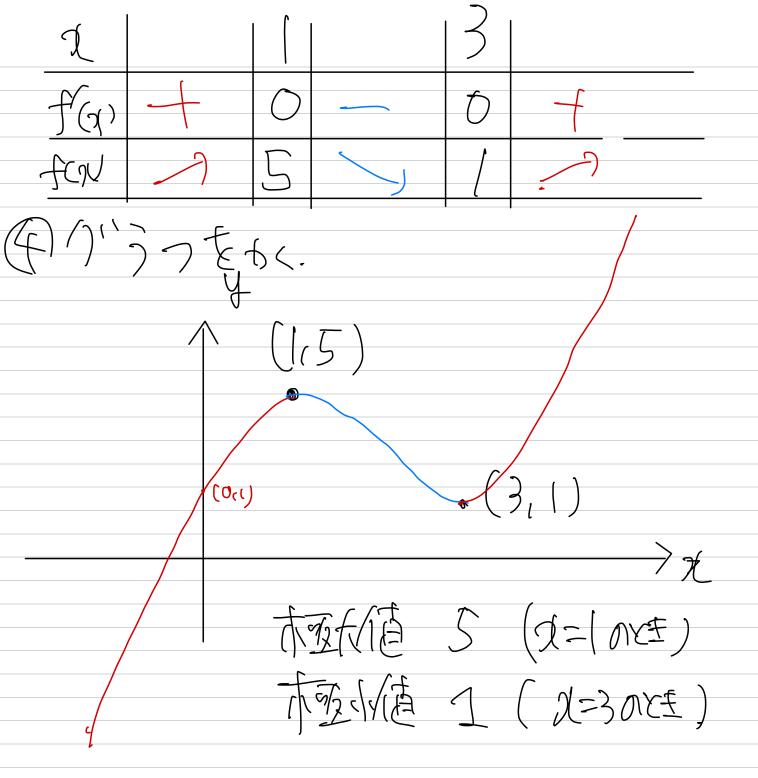
$$= \frac{1-2^{2}}{(2^{2}+1)^{2}}$$

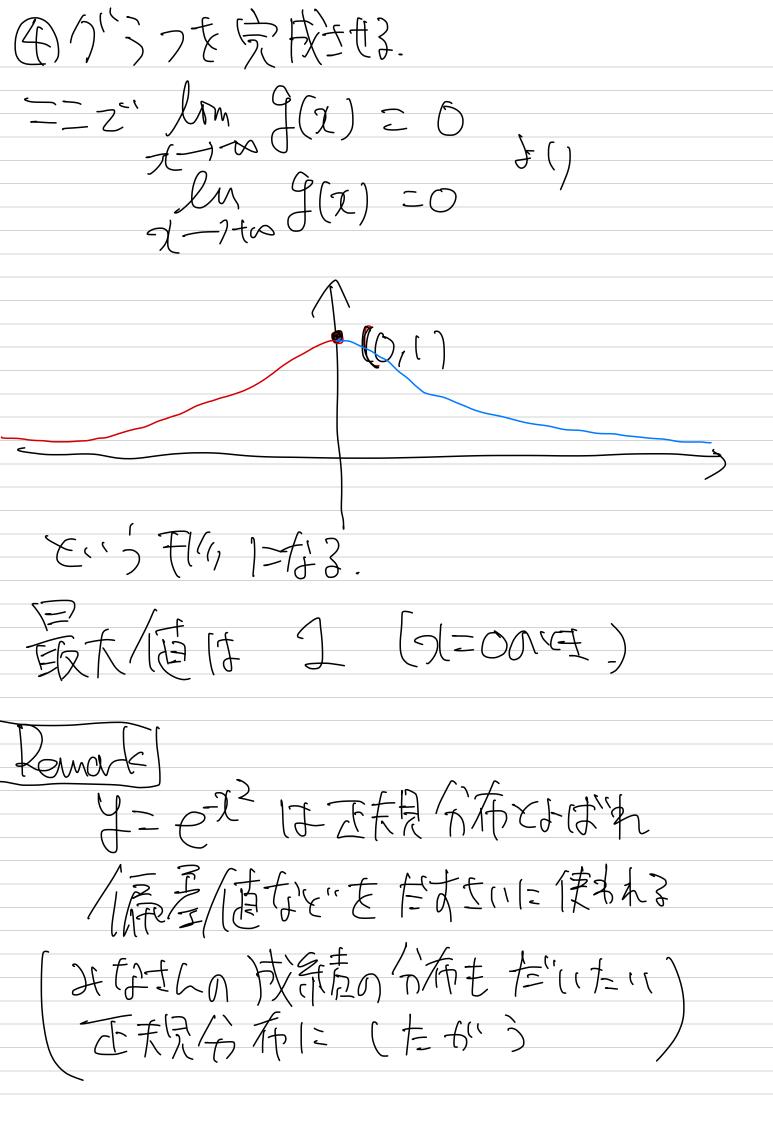
$$= \frac{1-2^{2}}{(2^{2}+1)^{2}}$$
(2) $f(x) = 2x^{2}+1$, $g(y) = [y = y = y = 2x^{2}+x^{2}+1]$

$$= \frac{1}{2}(x^{2}+1)$$

1		>	
f(7)	0	D	
fav	5		-

 $(-\omega, l)$ 上 z' f(x) > 0 (f(0) = 9 > 0 + 1) (1/3) 上 z' f(x) < 0 (f'(2) = -9 < 0 + 1) $(3, +\infty)$ f(x) f(x

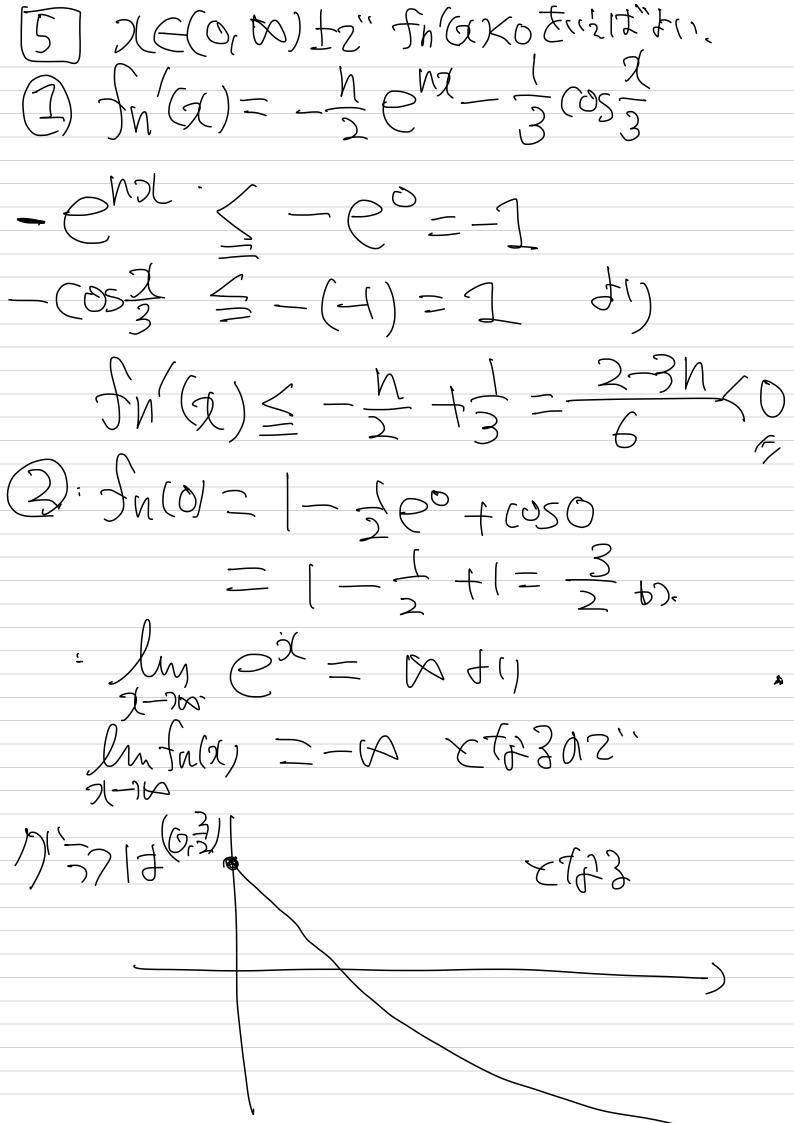




$$\begin{array}{l}
\text{FP}(x) = \frac{1}{1+x} \\
f^{2}(x) = (\frac{1}{1+x})' = (\frac{1}{1+x})' \\
= -(\frac{1}{1+x})' = (\frac{1}{1+x})^{-2} \\
= 2(\frac{1}{1+x})^{-3} \\
\text{2)} f^{4}(x) = (2(\frac{1}{1+x})^{-3})' \\
= -6(\frac{1}{1+x})^{-4} \\
f^{2}(x) = (\frac{1}{1+x})^{-4} \\
f^{4}(x) = (\frac{1}{1+x})$$

f(N+1)(z) = (f(M)(x))/

 $(-1)^{h-1}(h-1)!(1+x)^{-n})$ $= (-1)^{N-1} (N-1)^{N-1} (-N) (+2()^{-N-1})^{N-1}$ $= (-1)^{N} \cdot N_{A} \cdot (-1)^{N} \cdot$ よって をこれり かくきも はりたっ $\pm 40 = (-1)^{R-0} (-1)^{-1} (-1)^{-1}$) NZ/NYE $\frac{J(N)(0)}{N(1)} = \frac{(-1)^{N-1}(N-1)^{N-1}(1+0)^{-N}}{(1+0)^{N-1}(1+0)^{N-1}(1+0)^{-N}}$ [1]h-1-2;h1) f(0) = log(H0) = 0 f()



于32. 卡卡了力中较有平下42. $3) e^{1/2} = 2(4 \cos \frac{4\pi}{3})$ $\leq 2((1) = 4 d1)$ $0 \leq N Q_N \leq \log 4$ $\frac{1}{N}$ $\frac{1}{N}$ $\frac{1}{N}$ (F) / 10/4 = 0 +11 $\lim_{N\to\infty} \Omega_N = 0$ f = han = lg 2 (1+ cos 3) dy lm han = lm (0,2([+ (053) = (092((d(050) = 1094