lim Sin2m 1 1 Ca57m 2 655 SIKM man) (CSM Simm -3 (05M 3

 $lim (1-m) tan \frac{\pi}{2} m = 0 x \infty$ t=1ーかっかー1ー七っかーかしつします。 $= \lim_{t\to 0} t \cdot \tan \frac{\pi}{2} (1-t)$ $= \lim_{t \to a} t \cdot \tan\left(\frac{\pi}{2} - \frac{\pi t}{2}\right)$

=lim t. (at (
$$\frac{\pi t}{2}$$
)

=lim t. (at ($\frac{\pi t}{2}$)

=lim t. $\frac{1}{\tan \frac{\pi t}{2}}$
 $\frac{t}{\tan \frac{\pi t}{2}}$

N -2 6 1-(cs n =) in n => = (im \sin\n) lin Sinn - 1 Sinn - 1 Sinn - +1

No no o o o

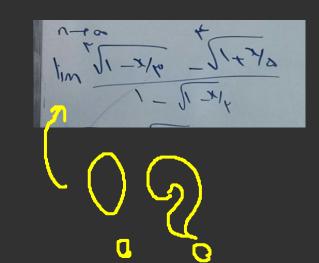
n+1 n+1n no too Lin JUHTU ~ JJU 1 N 8 VVn 1/9< = $\lim_{N\to\infty}$ Ny+W

$$\frac{1}{2} \frac{1}{2} \frac{1}$$

$$\lim_{t\to 0} \frac{\sin(\pi t/2)}{\pi t/2} \times \frac{\pi}{2} = \frac{\pi}{2}$$

$$\lim_{t\to 0} \frac{3\sqrt{27n^6} - 4n}{4n^2} = \frac{3n^2}{4n^2} = \frac{3n^2}$$

1+2+ ...+ M $\frac{1}{2} \lim_{N \to \infty} \frac{N}{2n^2}$ lim 12+ ...+ $\frac{1}{N} = \frac{N^2}{4n^3}$ 7-N/3 - 4/1+N/5 - 11+N/8 1-212



$$\lim_{n \to \infty} \left(\frac{n+q}{n+q} \right) \frac{n+q}{n+q}$$

$$= \lim_{n \to \infty} \left(\frac{1}{n+q} + \frac{n+q}{n+q} \right)$$

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 $\left(\gamma - \frac{\gamma}{2}\right) - \left(\gamma + \frac{\gamma}{2}\right)$ $-2 \sqrt{2}$

 γ^2 6 γ +5 $(1)^{3}$ 2n 2n - 6 3 (2-0)

 $f(n) = \int_{0}^{\infty} 2\pi n + b n - 3 \quad n < 1$ M - M + 410 1 < 7<2 (an-26 N2 ひりとり、ためいことのことのことのことのことのことのことによる。

$$f(1) = 1^3 - 1 + 4! \alpha = 4! \alpha$$

 $\lim_{n \to 1^{-1}} f(n) = 2\alpha + b - 3$
 $\lim_{n \to 1^{-1}} f(1) \Rightarrow 2\alpha + b - 3 = 4! \alpha$
 $\lim_{n \to 1^{-1}} f(1) \Rightarrow 2\alpha + b - 3 = 4! \alpha$

f(2) = 200 - 20 $\lim_{n \to \infty} f(n) = 2^3 - 2 + 4! \alpha$ Lim = f(1)=7 2a-2b-3-2+41a

$$\begin{array}{l} = 3 - 2b - 6 + 2a \\ \Rightarrow \begin{cases} -2b - 6 + 2a \\ b - 3 = 2a \end{cases} \\ -\frac{3b+3}{5-3} = 0 \Rightarrow -3b=3 \\ b = -1 \end{array}$$

 $\lim_{n\to\infty} \frac{1}{n} = 1$ M_200 $\lim_{N\to\infty} N \left(\frac{1}{N^2 + 1} - \frac{1}{N} \right)$ ∞ $\left(\sqrt{2}+\sqrt{-1}\right)$ 00 (00 - 1) = 00

if $tanh n = \frac{13}{14}$ n > 0 $1-tanh^2 m = 5ech^2 m$ $1 - \frac{169}{196} = \frac{1}{(0.5)^{2}} = \frac{1}{196} = \frac{1}{(0.5)^{2}}$ $\frac{2}{(0.5)^{2}} = \frac{1}{27} = \frac{1}{3}(0.5)^{2}$ $\frac{2}{(0.5)^{2}} = \frac{1}{3}(0.5)^{2}$ $\frac{1}{3}(0.5)^{2}$ $\frac{1}{3}(0.5)^{2}$ $\frac{1}{3}(0.5)^{2}$ $\frac{1}{3}(0.5)^{2}$ $\frac{1}{3}(0.5)^{2}$ $= 3 \left(\frac{3\sqrt{3}}{3\sqrt{3}} \right) 5 \left(\frac{3\sqrt{3}}{\sqrt{94}} \right)$

tanhn= Sinhn => Coshn.tanhn= =>Sinhn= $\frac{44}{3\sqrt{3}}$ x $\frac{13}{3\sqrt{3}}$ $\frac{1}{3\sqrt{3}}$ $\frac{3\sqrt{3}}{3\sqrt{3}}$ $\frac{3\sqrt{3}}{3$