(1)

MORKSHEET NO=4 (Class=5)

On1 1 . f(x/= e cosx

f'(x)= lu (ecos(x+h) ecosx)

=  $e^{(\alpha)x}$ .  $\int_{h\to \infty}^{\infty} \left( \frac{Cos(x+h)-cosx}{e^{(\alpha)x}} \right)^{-1} de^{(\alpha)x}$ 

 $= e^{(\alpha x)} \int_{h \to c} \left( \frac{\cos(x+h) - \cos x}{-1} \times \frac{(\cos(x+h) - \cos x)}{\cos(x+h) - \cos x} \right)$ 

 $\frac{-e^{(\alpha)M}}{h^{-1}c}\left(\frac{\cos(\alpha+h)-\cos(\alpha)}{h}\right)=--\left(\frac{-1}{2}\frac{\ln\left(\frac{e^{2}-1}{2}\right)=1\right)}{\ln\left(\frac{e^{2}-1}{2}\right)}$ 

 $= e^{(\alpha n)} \times l_{v} \left( -2 s_{n} \left( \frac{2x+h}{L} \right) s_{n} \left( \frac{h}{L} \right) \right)$ 

= e(anx (-xsmx)x = --- { -: lu (smx)=1/

> 1/4/= - SINX.e (ax / AM

ON12 f(n/= o stand

 $f'(n) = \lim_{h \to c} \left[ \frac{e^{\int ten(x+h)} - e^{\int tenx}}{h} \right]$ 

take e Tenn Common

I (1/1)= e x lu (e Tenn) - Jenn

h-10 = e \ \times \lambda \ Fatenalize

| Stanta | Stan(xth) - Stanx | --- | Stanx | --- | Stanx | --- | Stanx | Stanta | - C Jeans Lu / tan(x+h) -tenx Fon (h)) 1+ ton (x+h) ton x 4

h ( Ton(x+h) + Jonx)

 $\lim_{\chi \to 2} \left( \frac{2^{-(\alpha)\chi}}{\chi(\chi - \frac{2}{2})} \right)$ PW- x = 3 + h & h-0  $= \lim_{h \to 0} \left\{ \frac{2 - \cos(\frac{\pi}{2} + h)}{(\frac{\pi}{2} + h) \left(\frac{\pi}{2} + h\right) \left(\frac{\pi}{2} + h\right)} \right\}$  $= \int_{h-1c}^{1} \left( \frac{2^{-1}}{(\frac{3}{2} + h)(h)} \right) - - \left\{ \frac{2^{-1}}{(\frac{3}{2} + h)(h)} \right\}$  $=\frac{1}{h-1c}\left(\frac{2^{snh}-1}{2^{snh}}\frac{x^{snh}}{(\frac{3}{2}+h)(h)}\right)$  $= \lim_{h \to c} \left( \frac{2^{smh} - 1}{snh} \right) \times \lim_{h \to c} \left( \frac{1}{2^{+h}} \right) \times \lim_{h \to c} \left( \frac{snh}{h} \right)$  $= \log 2 \times \frac{1}{2} \times 1 - - - \left(\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2$ ON1 4 + lu ( e7-e5)

$$= \lim_{h \to c} \left( \frac{e^{h} - e^{s}}{sfh - s^{s}} \right)$$
Take  $e^{s}$  Common
$$= e^{s} \lim_{h \to c} \left( \frac{e^{h} - 1}{h} \right)$$

$$= e^{s} \lim_{h \to c} \left( \frac{e^{h} - 1}{h} \right)$$

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$$= \lim_{h$$

 $\frac{Q_{MS} 6}{21 + 1} \lim_{N \to 1} \left( \frac{2N-1}{\log N} \right)$   $= \lim_{h \to 0} \left( \frac{1+h-1}{\log (1+h)} \right)$ 

$$\begin{aligned}
&= \lim_{h \to c} \left( \frac{h}{\log(1+h)} \right) \\
&= \lim_{h \to c} \left( \frac{1}{\log(1+h)} \right) \\
&= \lim_{h \to c} \left( \frac{1}{\log(1+h)} \right) \\
&= \lim_{h \to c} \left( \frac{2^{3y} - 3^{3y}}{\sin(3y)} \right) \\
&= \lim_{h \to c} \left( \frac{2^{3y} - 3^{3y} - 1 + 1}{\sin(3y)} \right) \\
&= \lim_{h \to c} \left( \frac{2^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} \right) \\
&= \lim_{h \to c} \left( \frac{2^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} \right) \\
&= \lim_{h \to c} \left( \frac{2^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} \right) \\
&= \lim_{h \to c} \left( \frac{2^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} \right) \\
&= \lim_{h \to c} \left( \frac{2^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} \right) \\
&= \lim_{h \to c} \left( \frac{2^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} \right) \\
&= \lim_{h \to c} \left( \frac{2^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} \right) \\
&= \lim_{h \to c} \left( \frac{2^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} \right) \\
&= \lim_{h \to c} \left( \frac{2^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} \right) \\
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&= \lim_{h \to c} \left( \frac{2^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} \right) \\
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&= \lim_{h \to c} \left( \frac{2^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} \right) \\
&= \lim_{h \to c} \left( \frac{2^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} \right) \\
&= \lim_{h \to c} \left( \frac{2^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} - \frac{3^{3y} - 1}{\sin(3y)} \right) \\
&= \lim_{h \to c} \left( \frac{3^{3y} - 1}{\sin(3y)} - \frac{3^{3y}$$

$$\frac{2^{4} \cdot 3^{4}}{3^{1} \cdot 3^{2}} = \frac{1}{12^{4} - 3^{4} - 4^{4} + 1 - 1 + 1}{3^{1} \cdot 3^{1} \cdot 3^{2}}$$

$$= \frac{1}{12^{4} - 3^{4} - 4^{4} + 1 - 1 + 1}{3^{1} \cdot 3^{1} \cdot 3^{2}}$$

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$$= \frac{1}{12^{4} - 3^{4} - 4^{4} + 1}{3^{4} \cdot 3^{4} - 4^{4} + 1}$$

$$= \frac{1}{12^{4} - 3^{4} - 4^{4} + 1}{3^{4} \cdot 3^{4} \cdot 3^{4}}$$

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$$= (-93)(-184) - - (-184)(-184) = -140$$

$$= (-93)(-184) - - (-184)(-184) = -140$$

$$= (-93)(-184) - - (-184)(-184) = -15$$

$$= (-184)(-1$$

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

$$= \lim_{N \to V} \left( \frac{-(N-V)(1+\sqrt{5-N})}{(N-V)(3+\sqrt{5+N})} \right)$$

$$= -\frac{(1+1)}{3+3} = -\frac{2}{6} = -\frac{1}{3} \frac{ANV}{3}$$

$$= \lim_{N \to V} \left( \frac{(2N-3)(\sqrt{N}-1)}{2N^2 + 2N-3} \right)$$

$$= \lim_{N \to V} \left( \frac{(2N-3)(\sqrt{N}-1)(\sqrt{N}+1)}{2N^2 + 2N-3} \right)$$

$$= \lim_{N \to V} \left( \frac{(2N-3)(2N-1)(\sqrt{N}+1)}{2N^2 + 2N-3} \right)$$

$$= \lim_{N \to V} \left( \frac{(2N-3)(2N-1)(2N+3)(\sqrt{N}+1)}{2N+3} \right)$$

$$= \lim_{N \to V} \left( \frac{(2N-3)(2N-1)(2N+3)(\sqrt{N}+1)}{(2N+3)(2N+3)(2N+1)} \right)$$

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$$= \lim_{N \to V} \lim_{N \to V} \left( \frac{(2N-3)(2N-1)(2N+3)(\sqrt{N}+1)}{(2N+3)(2N+3)(2N+3)(2N+3)(2N+3)(2N+3)} \right)$$

$$= \lim_{N \to V} \lim_{N \to V} \left( \frac{(2N-3)(2N-1)(2N+3)(\sqrt{N}+1)}{(2N+3)(2N+3)(2N+3)(2N+3)(2N+3)(2N+3)} \right)$$

$$= \lim_{N \to V} \lim_{N \to V} \left( \frac{(2N-3)(2N-1)(2N+3)(2N+3)(2N+3)}{(2N+3)(2N+3)(2N+3)(2N+3)(2N+3)(2N+3)(2N+3)} \right)$$

$$= \lim_{N \to V} \lim_{N \to V} \left( \frac{(2N-3)(2N+3)(2N+3)(2N+3)(2N+3)}{(2N+3)(2N+3)(2N+3)(2N+3)(2N+3)} \right)$$

$$= \lim_{N \to V} \lim_{N \to V} \left( \frac{(2N-3)(2N+3)(2N+3)(2N+3)}{(2N+3)(2N+3)(2N+3)(2N+3)} \right)$$

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$$= \lim_{N \to V} \lim_{N \to V} \left( \frac{(2N-3)(2N+3)(2N+3)(2N+3)(2N+3)}{(2N+3)(2N+$$

$$= \lim_{N \to 0} \left( \frac{(14 \times 1^{2} - 1/2)}{(14 \times 1^{3} + 1/2)} \right) \left( \frac{(14 \times 1^{3} + 1/2)}{(14 \times 1^{3} + 1/2)} \right)$$

$$= \lim_{N \to 0} \left( \frac{(14 \times 1^{3} + 1/2)}{(14 \times 1^{3} + 1/2)} \right)$$

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$$= \lim_{N \to 0} \left( \frac{(14 \times 1^{3} + 1/2)}{(14 \times 1^{3} + 1/2)} \right) = 80$$

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$$= \lim_{N \to 0}$$

DATE AND LINE (I-X)^n-1

LU I-X=Y

A = I-Y

When 
$$y \to 1$$

Then  $y \to 1$ 

LU  $\left(\frac{y^n-1}{1-y}\right)$ 

$$= -\ln\left(\frac{y^n-1}{y-1}\right)$$

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LU It  $x = y$ 

When  $x \to 0$ 

Then  $y \to 1$ 

If  $y \to 1$ 

$$y \to 1$$

$$y$$

QN: 20 A P(n/= x"3

=> f'(x)= lu/h (x+h)"3-x"3

lu x+h=y => h= 2=> y-x

· 1//1/= lu ( y"3-x"3)

Thus is in the form  $\lim_{N\to a} \left( \frac{\chi^2 - a^n}{\chi - a} \right) = n q^{n-1}$