Bropo 5 Tur zagemme

$$3) \frac{1}{1} \frac$$

$$\lim_{N \to \infty} \left(\frac{1 + \frac{2}{h^2} - \frac{4}{h^3}}{1 + \frac{1}{h^2} - \frac{2}{h^3}} \right)^{5h^2} = \lim_{N \to \infty} \left(\frac{1 + \frac{1 - 1 + \frac{2}{h^3} - \frac{4}{h^3} - \frac{4}{h^3}}{1 + \frac{1}{h^2} - \frac{2}{h^3}} \right)^{5h^2}$$

$$= \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)^{5n^2} = \lim_{N \to \infty} \left(\frac{1}{1 + \frac{1}{n^2} - \frac{2}{n^3}} \right)$$

$$\frac{2}{1^{2}} \lim_{n \to \infty} \frac{8n^{2} - 3\cos 2n}{(4n^{2} - n + 1)^{3}}$$

=
$$\lim_{N\to\infty} \frac{120 n^6 - LIS cos 2 n n^4 + \dots}{64 n^6 + \dots} = \frac{15}{8}$$

3
$$\lim_{x \to 1} \left(\frac{3 + 3(x - 1)}{-7 x^2 + 4 x + 3} \right) = \begin{cases} (x - 1) = 0 \\ + 9(x - 1) = (x - 1) \end{cases} = \begin{cases} (x - 1) = 6 \\ -7 x^2 + 4 x + 3 \end{cases} = \begin{cases} -$$

$$\lim_{x\to\infty} (\chi^2 \ln(\cos \frac{3\pi}{x})) = \int_{-\infty}^{3\pi} \frac{3\pi}{x} = 0 \quad (3\pi)^2 = 0$$

$$= \lim_{x\to\infty} (\chi^2 \cdot (\ln(1 - \frac{5\pi}{2x^2})) = \lim_{x\to\infty} (\chi^2 - \frac{9\pi}{2x^2}) = -4.5\pi^2$$

$$= \lim_{x\to\infty} (\chi^2 \cdot (\ln(1 - \frac{5\pi}{2x^2})) = \lim_{x\to\infty} (\chi^2 - \frac{9\pi}{2x^2}) = -4.5\pi^2$$

$$\lim_{X \to 0} \frac{\text{avcty}(3xy)}{x^2y - xy} = \lim_{X \to 0} \frac{3xy}{xy(x-1)} = -3$$

$$y \to 2$$

$$8inx \sim x$$
 $tgx \sim x$

$$avctyx \sim x$$
 $cos x \sim 1 - \frac{x^2}{2}$

$$(1+x)^{\alpha} \sim 1+\alpha \times$$

Pepbour joureratensusur upegen!

$$\lim_{x \to 0} \frac{\sin x}{x} = 1$$

 $\mathcal{U} \times \mathcal{P} \mathcal{O}$

Bropon zame ragensensen upegen!

$$\lim_{x\to\infty} \left(1+\frac{1}{x}\right)^{x} = e$$

$$\lim_{x\to\infty} \left(1-\frac{1}{x}\right)^{x} = e^{-1}$$

Pen uz MCP:

D lim $(3n^2 - 4\cos h)(3n^4 + 4)$ $n \Rightarrow \infty$ $3n^3 - 4n + 3)^2$ = lim $3n^6 - 24n^4 + 18n^3 + 16n^2 - 24n + 9$