Puskpubane na nevyregenenoar 2 DM. MEDMEGERRACTU 4 TEOPENN MU SOMUTAN Mpabrun Mu Somutan yrenux nu Egynyu 17017. I sorumu komune no $f(x) \rightarrow 0 \qquad \lim_{x \to x_0} \frac{f(x)}{g(x)} = \lim_{x \to x_0} \frac{f'(x)}{g'(x)} = \lim_{x \to x_0} \frac{f''(x)}{g'(x)} = \lim_{x \to x_0} \frac{f''(x)}{$ $\frac{x \to x_0}{\lim_{x \to x_0} f(x)} = \lim_{x \to x_0} \frac{f(x)}{g(x)} = \dots = \lim_{x \to x_0} \frac{f(x)}{g(x)} = \dots$ +(x) XXX

$$\begin{array}{lll}
|\{\omega,0\}\rangle & |\{0\}\rangle & |\{0\}\rangle & |\{\omega,-\infty\}\rangle & |\{-1\}\rangle & |\{\omega,0\}\rangle \\
|\{\omega,0\}\rangle & |\{-1\}\rangle & |\{\omega,0\}\rangle & |$$

 $\lim_{x \to 1} \ln x \cdot \ln(x-1) = \lim_{x \to 1} \frac{\ln(x-1)}{1} = \lim_{x \to 1} \frac{x \cdot \ln x}{1} = \lim_{x \to 1} \frac{x \cdot \ln x}{1}$ $\lim_{x \to 1} \ln x \cdot \ln(x-1) = \lim_{x \to 1} \frac{\ln(x-1)}{1} = \lim_{x \to 1} \frac{x \cdot \ln x}{1} = \lim_{x \to 1} \frac{x \cdot \ln x}{1}$ $\lim_{x \to 1} \ln x \cdot \ln(x-1) = \lim_{x \to 1} \frac{\ln(x-1)}{1} = \lim_{x \to 1} \frac{x \cdot \ln x}{1} = \lim_{x \to 1} \frac{x \cdot \ln x}{1}$ $\lim_{x \to 1} \ln x \cdot \ln(x-1) = \lim_{x \to 1} \frac{\ln(x-1)}{1} = \lim_{x \to 1} \frac{x \cdot \ln x}{1} = \lim_{x \to 1} \frac{x \cdot \ln x}{1}$ $\lim_{x \to 1} \ln x \cdot \ln(x-1) = \lim_{x \to 1} \frac{\ln(x-1)}{1} = \lim_{x \to 1} \frac{x \cdot \ln x}{1} = \lim_{x \to 1} \frac{x \cdot \ln x}{1}$ $\lim_{x \to 1} \ln x \cdot \ln(x-1) = \lim_{x \to 1} \frac{\ln(x-1)}{1} = \lim_{x \to 1} \frac{x \cdot \ln x}{1} = \lim_{x \to 1} \frac{x \cdot \ln x}{1}$ $=-\lim_{x\to 1}\frac{\ln^2 x + 2x\ln x \cdot \frac{1}{x}}{1} = \lim_{x\to 1}\left(\ln^2 x + 2\ln x\right) = 0$ $\lim_{x \to 0} (\cot yx)^{\frac{1}{2}} = \lim_{x \to 0} (\cot y$ $\frac{x}{x} = \lim_{x \to 0} \lim_{x \to 0} \lim_{x \to 0} \frac{y}{y} = \lim_{x \to 0} \lim_{x \to 0} \frac{1}{\sin^2 x} = \lim_{x \to 0} \frac{1}{\sin^2 x} = \lim_{x \to 0} \frac{x}{\sin^2 x} = \lim_{x \to 0} \frac{1}{\sin^2 x} = \lim_{x \to 0} \frac{1}{\sin$

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$$\lim_{x \to \infty} \left(\frac{2}{3} \operatorname{arctg} x \right)^{x} = \lim_{x \to \infty} \int_{-\infty}^{\infty} \operatorname{din} \left(\frac{2}{3} \operatorname{arctg} x \right)^{x} = \lim_{x \to \infty} \int_{-\infty}^{\infty} \operatorname{din} \left(\frac{2}{3} \operatorname{arctg} x \right)^{x} = \lim_{x \to \infty} \int_{-\infty}^{\infty} \operatorname{din} \left(\frac{2}{3} \operatorname{arctg} x \right)^{x} = \lim_{x \to \infty} \frac{1}{3} \operatorname{arctg} x = \lim_{x \to \infty} \frac{1}{3} \operatorname{arctg} x$$

 $\lim_{x \to 1} \frac{1-x}{x \ln x + x - 1} = \lim_{x \to 1} \frac{-1}{\ln x + 2x + x - 1} = \lim_{x \to 1} \frac{1}{\ln x + 2x} = \lim_{$ g. P. No 7 lim [sc(arctg x+1) - arctg x-1)
x->2