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	demb,	causi !	moreki	X6 (M.	e. Mo	Mem	1	x->X0	8	(K)	3			1
	Sumi	f'(x0)	77	300	9	=	7		f	(x)		1		
12 3 4 3	100	1	(0)	13	14	1		;m	8'1	(x)	1			
1) g'(x) ≠0 b	+ XE UC	X0), X=	Xo			100	X-		-4				1	
				1. 3					1				F	
) Lim f(x)=	Lim g(x)	1-0		1			1					T.		1

(m.e. $\lim_{x \to \infty} \frac{f(x)}{g(x)} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$)

(m.e. $\lim_{x \to \infty} \frac{f(x)}{g(x)} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$) a Bropol maburo 1) +(x), g(x)-guaragepenyupyeny & oxpermocomi U(xo) mornin xo, upone, noncem sumb, conoù mornin xo (m.e. nomem sumb = L:m g(x) = I f'(x0), g'(x0) 2) g(x) \$0 t x & U(x,), x \$ X. 3) $\lim_{x \to \infty} f(x) = \lim_{x \to \infty} g(x) = \infty \left(\lim_{x \to \infty} \frac{f(x)}{g(x)} = 0 \right)$ $4) \exists \lim_{x \to x} \frac{f(x)}{g'(x)}$ Lapregra Illewopa f(x): = f', f", ... f" b oxpecmuocom morku "xo" mongor + x E. U(X.) $f(x) = f(x_0) + 1! (x - x_0) + 2! (x - x_0)^2 + ... + n! (x - x_0)^n$ Lapryra Meiropa c ocmamorusu rienau & grapue Teano Il puneranne: $\exists f(x), morga zanucubasam o((x-x_0)^n) = f^{(n+1)}(c)$ B opingue Themopole $X_0=0$ f'(0) f''(0) f''(0)

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Jetalegno znamb:

x^2 \times x^n

1) e^* = 1 + x + 2! + ... + n! + o(x^n)
2) sinn x = x - 3! + 5! + ... +
                                                            2112
                                    (2n)
4) Ch (1+x)=x-2
                                                      L(2-1)(2-2)...(2-(n-1)
5) (1+x) = 1+2.x+
                                                               n!
+ (X1)
```