Cerevies D. BC-11 1 lim (sinx) = lim (sinx-1+1) = lim egx(sinx-1) = e = 1 lim tgx(scux-1) = lim scux. lim cosx 1) lim sinx = sin = 1; 2) lim  $\cos x = \lim_{x \to \frac{\pi}{2}} \frac{\sin x - 1}{\cos x} = \lim_{x \to \frac{\pi}{2}} \frac{\sin x - 1}{\cos x} = \frac{\sin x - 1}{\sin x} = \frac{\sin x - 1}{\sin x}$  $\frac{3 \cos^2 x - 1}{\tan \cos x (\sin x + 1)} = \lim_{x \to \frac{\pi}{2}} \frac{-\cos x}{\cos x (\sin x + 1)} = \lim_{x \to \frac{\pi}{2}} \frac{-\cos x}{\sin x + 1} = 0$ 3) lime tox (saix-1) = e = 1. N=2. a) f(x) = cosx-1, X=(0,1)  $\lim_{K \to 2\pi + 0} \frac{x^2}{\cos x - 1} = \frac{4\pi^2}{1 - 1} = \frac{4\pi^2}{5} = \infty, \quad x \neq 2\pi n, \quad n \in \mathbb{Z}$ lim cosx-1=1-1=-0; V > 201-0 lim f(x) = lim f(x), Ko = 2Mp, no I - Torree populy 2-20 posy

N=2.6f(x)= = (x- [x+ き」)・ |x- [x+ ま] |+ 年[x+ ま] Af(n+ =+0)= = (n+2-(n+1)). | n+= = (n+1)+ + 4 (u+1) = - 4. 2 + 4 u + 4 = 8 + 4 u + 4 = 8 + 4 u + 4 = 8 + 4 u + 4 = 8 + 4 u + 4 = 8 + 4 u + 4 = 8 + 4 u + 4 = 8 + 4 u + 4 u + 4 = 8 + 4 u + 4 u + 4 = 8 + 4 u 2)  $f(n+2-0) = \frac{1}{2}(n+\frac{1}{2}-n)|n+\frac{1}{2}-n|+\frac{1}{4}n = \frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{2}-n|+\frac{1}{4}n = \frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{2}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}(n+\frac{1}{4}+n)|n+\frac{1}{4}($ f(x0+0)=f(x0-0)=f(x0)  $f(x) \in C(R)$  - berogn venepephra. N=3. B)  $f(x) = \ln x$ , X = (0,1) II  $x'_n = e^x$   $x'_n = e^x$ Acro na X=(0,1).

