Kneuguan Homena 505-127 $\sum_{n=2}^{\infty} \left(e^{-\left(1 + \frac{1}{n^2}\right)^{n^2} \right)^{\kappa}$ e-1+/1/12 = e-eh/1+/2)·h2 ~ e-e/h2 +2/4)h2 =e-e 1+212 = e (1-e 212) = e (1-e 212) no ~ e (1-(1-2/2)) = e. 1/2/2 $\Rightarrow (e-(1+\frac{1}{n^2})n^2)^{\alpha} \sim (e-\frac{1}{2n^2})^{\alpha} e^{\alpha}$ e^{α} $e^{-\frac{1}{2n^2}}$ $e^{-\frac{1}{2n^2}}$ $e^{-\frac{1}{2n^2}}$ $e^{-\frac{1}{2n^2}}$ $e^{-\frac{1}{2n^2}}$ $e^{-\frac{1}{2n^2}}$ ecnu 2x > 1, to ex-ent ecan 2d=1 to 1k lat 271, TO ex-Cel. ecan 2x < 1 pacx > 26: 2316-CXCE a < 1/2 - pacx-col. $\frac{2}{2} \frac{h^2}{(x+1)} \left(\frac{x}{h^2} \right) + \frac{2}{2} \frac{h}{(2n)!} \Rightarrow \frac{$

noroze yu ka palmonepio => cx-ce f(XN) > N2 (X+1) costy 11+ u=t-1/2

Sin2W 1-cosu $1 - \frac{2}{2} (1)^{n} (2u)^{2n}$ $\frac{2}{2} (1)^{n} (2u)^{2n}$ $\frac{2}{2} (1)^{n} (2u)^{2n}$ $\frac{2}{2} (1)^{n} (2u)^{2n}$ $\frac{2}{2} (1)^{n} (2u)^{2n}$ no The Sourcep. moreon normeruns base (-1) 2 2m - 2m -(ens! (2n)!12 20-1 201-1 du = TI+ 1) 2 20 - 1 2 1/2 - 17/2 (2h)! 2h) 0 = 17+ $\frac{(-1)^{n} 2^{n+1} 2^{n+1} x^{-n/2}}{(2n)! 2n} = \pi + \sum_{n=1}^{\infty} \frac{(-1)^{n} 2^{n+1} (x^{-1/2})^{2n}}{(2n)! 2n}$ $\frac{(x^{-1/2})^{2}}{(2n)! 2n} = \lim_{n \to \infty} \frac{(-1)^{n} 2^{n+1}}{(-1)^{n} 2^{n+1}}$ $\frac{(x^{-1/2})^{2}}{(2n)! 2n} = \lim_{n \to \infty} \frac{(-1)^{n} 2^{n+1}}{(-1)^{n} 2^{n+1}}$ = 1/8h x (2n+1)! > 8h 8 x x sh x > x. Dunce X No X No N+X $\frac{h \times}{h + X} \rightarrow X$ > f(x)=X. f(x) nororeieuo.

2) lla E: 0=3x-n8h xx = x-n, x = xn+x2-nx = 0=3x-n8h xx = x-n, n+x = (n+x) = = x2 (quarui gener6, x-n8h x >0) 2 fr >0 > no y-ky b-ea na E, ex-co pabuoreepno. = N-N8h N+N = NI shill > 1-shit -> cx el nepaluo regino