Flegeniera KR N1 0,2 lim sin(1) (3+ cos(1) + 3+ cos(1) + 3+ cos(1) Sin IL - IL hyu 1 300 ein sin(1/4) \ \frac{1}{3+cos(1/4)}= eim & f(Ei) 'Axi = Son f(x)dx $\Delta x_{i} = \frac{1}{n} \quad \begin{cases} i = \frac{i\pi n}{n} \end{cases}$ $f(\xi_{i}) = \frac{1}{3 + \cos(\xi_{i})} \quad \begin{cases} \xi_{i} = \frac{i\pi n}{n} \end{cases}$ $f(\xi_{i}) = \frac{1}{3 + \cos(\xi_{i})} \quad \begin{cases} \xi_{i} = \frac{i\pi n}{n} \end{cases}$ $= i \int_{0}^{1} \frac{1}{3 + \cos x} dx + \int_{0}^{1} \frac{1}{3 + \cos x} dx = \int_{0}^{1} \frac{1}{3 + 2\cos^{2} \frac{\pi}{2}}$

2 (sint trosex) +2 $= \frac{\sqrt{2}}{2} \int \frac{d(\frac{1}{2})}{(\frac{1}{2})^2 + 1} = \frac{1}{2} \cdot \sqrt{2} \cdot \operatorname{overts} \left(\frac{1}{\sqrt{2}} \right) + C = \frac{\sqrt{2}}{2} \operatorname{overts} \left(\frac{1}{\sqrt{2}} \right)$ in $F(x) = \sqrt{2} \cdot \cos(tg(\frac{tg(\frac{x}{2})}{U}))$ when $x \in [0, x]$ FIX) He where mother pospers => $|f(x)| = |f(x)|^{\frac{1}{6}} = \int (\alpha sets(\frac{ts(x)}{t}) - \alpha sets(\frac{tg(x)}{t}))$ => [(x) /" = JE (1/2-0) = JER Вернёмий к костранию; Tr. Sof(x)dx = 11. 511 = Will

lim tex 1 etsin (t) J+41 dt ein 1 ct for ett Still < lim 1 pet(+31) de = ft = [] f3' = f8 - [f'st f'= 2t g=et] = :(x441) et - | 2 t et dt = (t2+1) et -2 stetdt Stet & t = []f3' = fg-]f'g f=t g'=et]=tet-fett =tet-et (ti+1) et -2tet+2et = (t1-2++3) et+== =(x2-2x+3)ex-3 lim 1. (x2-2x+3)ex-3=lim(x2-2x+5)- 5-x3px--0

0,5,2 ein 1 (los(1+sin (Jx)) ex, hen I' log (1+ sin(1)) dx = Ju log (1+ sin(1)) dx + Julog (1+ 1 + 0(1)) dx= = C+ Sm 1 + O(1) tx=C+ (JX) 4 + + fo (1/1 = e +1 / 0 (1) 1x] M Brispano mock, rum tx > M (1- 1 < 0 (1) < (2, 1) => C, (logn-logn) < 5 m 0(2) dx < Ce (logh-log 14) = 5 5 0(2) bx = 0 (copx) 1:4 1 (C'+1 th + Ollogx) = 2