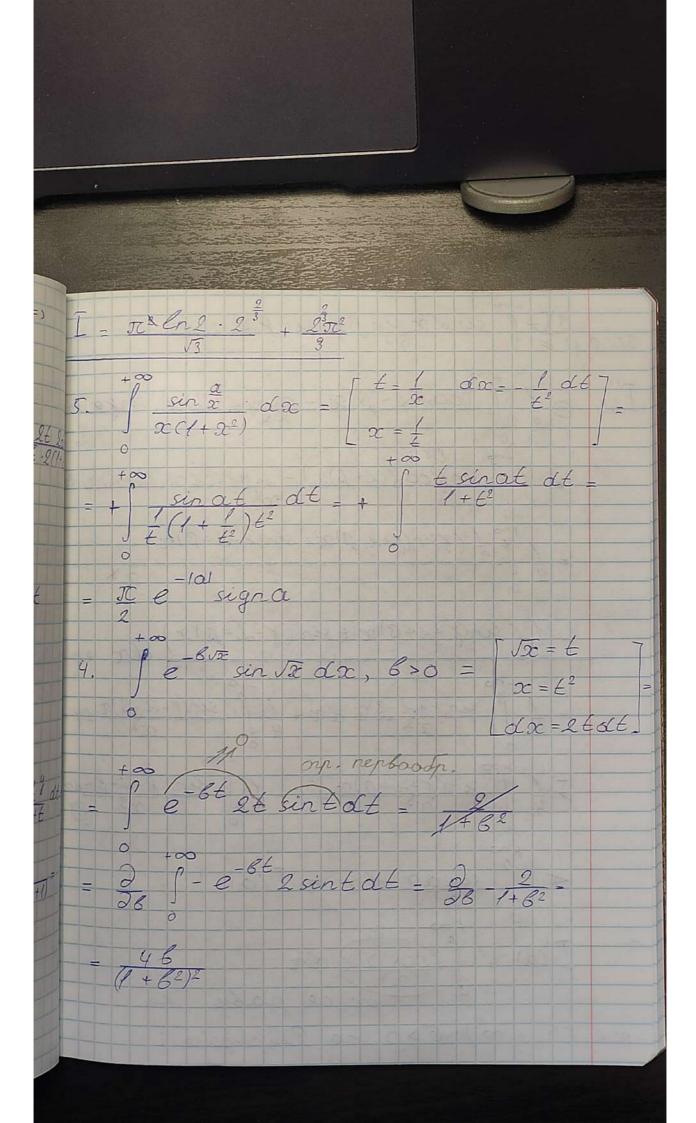
21 anneue 2023 x 2 $12 1. J(d) - \int \frac{xdx}{10 - 4x + xd}, \quad y = (2, +\infty)$ I Baneman, 2000 - ne occide morra, nd4, m.R. 10-4x+xx = 6 Y E'D pagenompun ex-mo J (L) Ka 3, = [2+E, + d) $1/(x, L) | \leq g(x)$ $g(x) = [1, x \in [0; 1]]$ $\frac{x}{10-4x+x^{2+\epsilon}}, x \in (\ell; +\infty)$ $\int g(x) dx cx - cx = \int J(L) cx - ce$ rabn. 4L E [2+E, +00) 4. E => => J(L) ex-ce pabr. na (2, +0)

Tru man f(x, L) resp. => => 2(L) Kenp $T = \int_{-\sqrt[3]{x}}^{+\infty} \ln(x) dx = \left[\frac{x}{2} = 24 \right] = \int_{-\sqrt[3]{x}}^{+\infty} \ln(2+x) dx = \left[\frac{x}{2} = 24 \right] = \int_{-\sqrt[3]{x}}^{+\infty} \ln(2+x) dx$ 15 ln2 + lnt dt = = lng B(2/3) + 3/2 \ 3/E (1+E) dt $\frac{\pi}{\sin 2\pi} = \frac{2\pi}{\sqrt{3}}$ $I_1 = I_1(\frac{1}{3})$ $I_{,}(X) = \int_{0}^{g} \underbrace{\xi^{g} \ln \xi}_{0} d\xi = \int_{0}^{\infty} \underbrace{\lambda^{g} \xi^{g}}_{1+\xi} d\xi = \int_{0}^{\infty} \underbrace{\lambda^{g} \xi^{$ = - TC2 COS TC (4+1) Sin2 TC (4+1) $I_1 = -\pi^2 \cos \frac{4\pi}{3} = \frac{\pi^2}{3} = \frac{2\pi^2}{3}$



IL = | sind & sin Box sinf & doc & no Dupuxue:
sind x sin Bx sing x nepbood op. 1 =30 3a venue, 2mo I (L, B, f) kenp. no L 6 pm (.) 0: III (1 - cynn re [A, +00) Idd = I sind x sin Bx sin y x d 2 (3) cx. ροβπ κα [6,+∞), 6 20 anaiorumo I'd (2, B, f) resp. no 2 6 () 0 araworungo.

I(L, B, P) = Sindx sin Bx sin fx dx = I'd $\Theta = \int_{2}^{\infty} \int_{1}^{\infty} \frac{(\cos((L-\beta)\alpha) - \cos((L+\beta)\alpha)) \sin(\alpha \alpha)}{x^{2}}$ $= \int_{2}^{+\infty} \frac{8x}{\sin(x\cos((\lambda-\beta)x))} - \sin(x\cos((\lambda+\beta)x)) dx$ $= \frac{1}{2} \int_{-2}^{+\infty} \frac{1}{2} \left(x \sin(y+d-\beta)x + \sin(y-d+\beta)x \right) - x$ $\frac{1}{2}\left(\sin(\gamma+\lambda+\beta)x+\sin(\gamma-\lambda-\beta)x\right)dx =$ $=\frac{1}{4}\int \frac{\sin(f+d-\beta)x}{x^{2}} dx + \frac{1}{4}\int \frac{\sin(f-d+\beta)x}{x^{2}} dx +$ $\frac{1}{4} \int \frac{1}{5} \frac{\sin(f+d+\beta)x}{x^3} dx - \frac{1}{4} \int \frac{\sin(f-d-\beta)x}{x^3} dx$ $\neq \int \frac{\sin \alpha x}{x^3} dx = I(\alpha)$ $I(a) = \int_{0}^{+\infty} \cos \alpha x \, dx$ 2 € [6, + 00), 6 > 0 no Dupuxure:

F! 1 (II sing (f+d-B) + IT sign (f-d+B) + + I sign (f+d+B) + I sign (f-d-B)) Id = Jt (18+d-B1+18-2+B1+18+4+B)+ + (x-2-B1)+C, Tixo>=0 Tix (0,0,0)=0=>C=0 $T = IC ((f+2-3)^2 sign (f+2-3) + (f-2+3)^2.$. sign & - (8 - 2 + B) + (f + 2 + B) 2 sign (2 + B + y) + + (x-d-B)2 sign (x-d-B)) + C2 aka [(0,0,0)=0=> C2=0