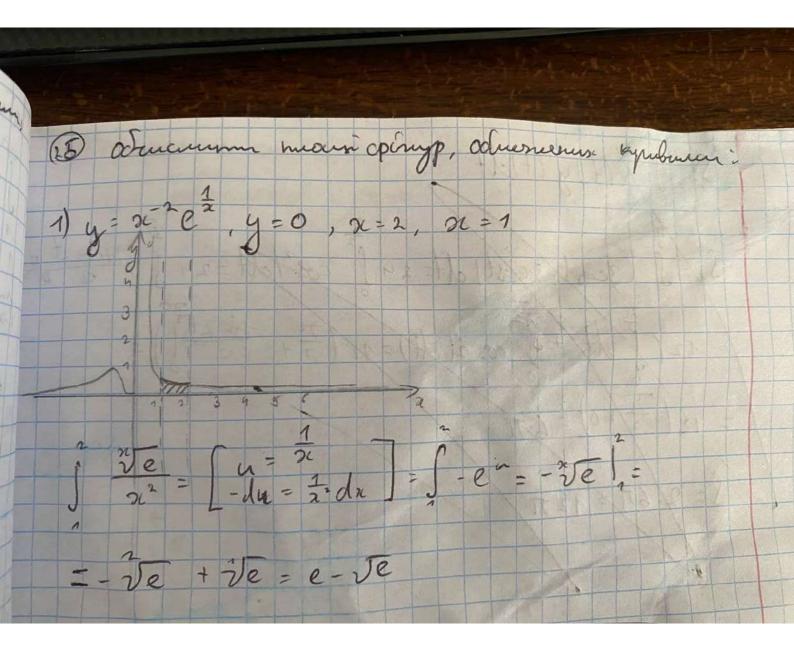
B-26 TPP1 Commens 0.0. 117-21 (3) obrummu innerpanie 1) § la (3x+2) dx = \$\frac{1}{3} \frac{1}{3} \land (t) dt = = 3 Sh(H) dt = 3 (hh) · t - St + dd = = 3 (h(+).+-+) = 3 (h(3x+2)(3x+2) - 13x+2) = (3 ln (3x+2) (3x+2) - 2 - 3) / = = $\frac{1}{3}$ ln (3.2+2) (3.2+2) - $2-\frac{2}{3}$ - $(\frac{1}{3}$ ln (3+2) (3+2) - $1-\frac{2}{3}$) = = $\frac{1}{3}$ h 8 · 8 - 2 - $\frac{2}{3}$ - $\left(\frac{1}{3}$ h 25 - $1 - \frac{2}{3}\right) = \frac{8}{3}$ hn 18) - 2 - $\frac{2}{3}$ - $\frac{5}{3}$ h(5) $\frac{1}{3}$ $= \ln \left(8^{\frac{9}{5}} \cdot 5^{-\frac{5}{3}}\right) - 1 = \ln \left(\frac{256\sqrt{5}}{25}\right) - 1$ 2) $\int \frac{d\alpha}{x^2+1} = \int \frac{1}{3(x+1)} dx \int \frac{-2c+2}{3(x^2-x+1)} dx = \frac{1}{3(x+1)} \frac{$ 5 3(2+4) dn + 5 -2c+2 dx = (1 ln (1x+1) + 1 ln (1x-x+1)+ $\sqrt{3}$ arcty $\left(\frac{2\sqrt{3}\pi-\sqrt{3}}{3}\right)\left(\frac{1}{3}\ln||3|\right) - \frac{1}{6}\ln||3|\right) + \frac{\sqrt{3}}{3}\arctan\left(\frac{2\sqrt{3}-2-\sqrt{3}}{3}\right)$ $= \left(\frac{1}{3}\ln(|2|) - \frac{1}{6}\ln(|1|) + \frac{\sqrt{3} \operatorname{arch}\left(\frac{2-\sqrt{3}-\sqrt{3}}{3}\right)}{3}\right) = \frac{1}{3}\ln(3) - \frac{1}{6}\ln(3) + \frac{\sqrt{3}-\frac{7}{3}}{3} = \left(\frac{1}{3}\ln(2) + \frac{\sqrt{3}\sqrt{3}}{18}\right) = 16$ $= \frac{1}{3h(3)} - \frac{1}{6h(3)} + \frac{\sqrt{3\pi}}{9} - \frac{1}{3h(2)} - \frac{\sqrt{3\pi}}{18} - \frac{1}{6h(3)} + \frac{\sqrt{3\pi}}{18} - \frac{1}{3h(2)} = \frac{1}{18} + \frac{1}{3h(3)} + + \frac{1}$

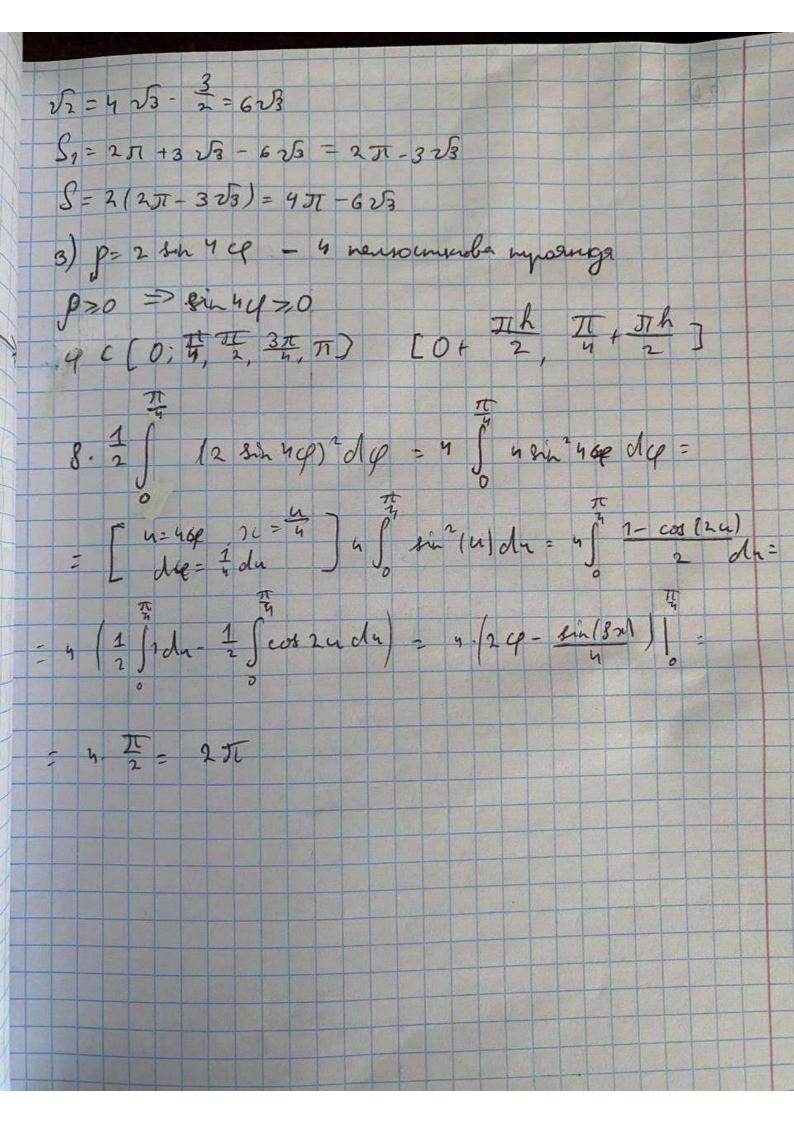
H: $= h \left(3^{\frac{1}{6}} \right) + \frac{\sqrt{3}}{18} + \ln \left(2^{-\frac{3}{3}} \right) = \ln \left(\frac{3}{n} \right)^{\frac{1}{6}} + \frac{\sqrt{3}}{18} =$ 4 : 3) $\int_{3}^{3} \sqrt{2-6x-9x^{-1}} = \int_{3}^{1} \sqrt{3-(3x+1)^{2}} dx = \left[\frac{u=3x+1}{2}, dx = \frac{1}{3} du \right]$ = \$\frac{1}{3\sqrt{3}-u^2}\du \[u = \sqrt{3\sqrt{3}}\du = \frac{1}{3\sqrt{3}-3\sqrt{2}}\dv = \frac{1}{3}\sqrt{3}\frac{1}\frac{1}{3}\sqrt{3}\frac{1}{3}\sqrt{3}\frac{1}{3}\sqrt{3}\frac{ $=\frac{1}{3}\int_{-\frac{\pi}{3}}^{\infty}\frac{1}{\sqrt{1-v^2}}dv=\int_{-\frac{\pi}{3}}^{\infty}\frac{1}{\sqrt{2}}\frac{u}{\sqrt{2}}$ -2) (3+2)-1-3 $\int \operatorname{avesin}\left(\frac{3n+1}{\sqrt{3}}\right) = \operatorname{aresin}\left(\frac{3n+1}{\sqrt{3}}\right) = \operatorname{aresin}\left(\frac{1}{\sqrt{3}}\right)$ 8 hn 18)-2-3-56 n) J 2" sin 2 dn = 5 16 sin (x)dn = 16 5 sin 2 dx = = 16 (- 8 sintre) cos n + 8 S sin 2 cdn = (+1) + 5 h = 16 (-8 sun n cosn + 3 (-6 lin 5 n cos x + 5 S tin n cdx)) = $||3||_{4} = \frac{3}{3} \frac{1}{3} \frac{1}{3}$

A Jana 5) J 22 = 8' innerpryborne roccineram.
5) J 22 = Sfg'= fg - Sfg $= 3^{\frac{1}{2}} \frac{1}{2^{\frac{1}{2}}} \frac{1}{3^{\frac{1}{2}}} \frac{1}{3^{\frac{1}{2$ - la (12+11) - la $= \frac{\sqrt{n^2-8}}{3n^3} + \left[v = 1-8u^2 \right] - \frac{1}{3} \int \frac{1}{16\sqrt{v}} dv =$ 1 2 dx $= \frac{\sqrt{3x^2-8'}}{3n^3} + \frac{\sqrt{1-8u^2}}{24} = \left[u - \frac{1}{2}, n - \frac{1}{u} \right] - \frac{\sqrt{n^2-8'}}{3n^3} + \frac{1}{24n}$: h] f(n) a $= \frac{\sqrt{(-8)^{\frac{2}{3}}}}{2421^{\frac{3}{3}}} \Big|_{4\sqrt{\frac{2}{3}}} = \frac{4\sqrt{2}}{\sqrt{3}} - 22\frac{1}{192}$ N = 131 m 6) J Txdn = [t= \(\sigma x - 1\) =] 2 \(\frac{t^2 + 4t + 2}{t} \) + = V21/23-1 = \$ 2 t+ n+ 2 dt = \$2 t dt + \$ ndt + \$ 2 dt Jundy. = $(\sqrt{2}(-1)^2 + 4(\sqrt{x} - 1) + 2 \ln(|\sqrt{x} - 1|) =$ 2 V23 - 1 = 21 + 2 2/2 - 3 + 2 ln(|2/2-1) = 9 + 2 \g - 3 + 2 ln (|2/2-1) --(4+224-3+2h(+24-1))=9+6-3+2h(2)-(8-3+2h/1)= = 7 + 2 ln(2)

De Sucume innerpenne ado goberne in pozdinnimo: 1) J x (247) - rebierenne innerpeu repuroropogy $= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{1}{(n+1)} dn = \int_{-\infty}^{\infty} \frac{2u}{n+1} \cdot \frac{1}{(n-1)^2} dn = \int_{-\infty}^{\infty} \frac{1}{(n+1)^2} dn = \int_{-\infty}^{\infty}$ $\frac{3}{3} + \frac{1}{3} = \frac{1}{3} + \frac{1}$ = lim S b(n) dn f(2) = 531 Vn3-1 7 2 =1 t 4+2 += $\int \frac{\chi^{2}}{\sqrt{3}n(2n^{3}-1)} \left[\frac{1}{3} dn = 2n^{2} dn \right] = \frac{1}{\sqrt{3}n} \int \frac{1}{3\sqrt{n}} dn = \frac{1}{3\sqrt{n}} \int \frac{1}{3\sqrt{n}} dn = \frac$ 2 +2 h /h6



2) { 2 = 3 cost, y = 4 25 (y = 425) { y = 8 int, y = 4 25 (y = 425) y=88int 8int = \frac{4\sqrt{3}}{8} = \frac{53}{2} t= 丁 t= 王 of enine brigg 9 + 64 = 1 S= 2S1 S= 15 91'(1) y (t) dt Si+S2= | [-3 sit · sent) dt = 24 5 sin * + dt = 24 \int 1 = \cos 2t dt = 12 (\int dt - \int \cos 2t dt) = = 12 (T - T - In 2t / 2) = 12 (T - T + 13) = 611-411+ 323-271+323 3 (428) 1 => 21 1 - 48 = 1 9 + 64 = 1 = 4 >L = 4 シレニナる



& Sucum OS'En prive, ymbopenoro depromounous y= 21 , 21 =0 y= & nebrono oci Oy 213=8 , 22=23= x=2 05252 [0;2] V= 211) 21-y(x)dx V= 271 5 x. 23 dr = = 271 \ \(\gamma \chi^2 = \frac{2\pi \chi \chi \sigma}{5} = \frac{64}{5} \pi 29 Odrumumu mainy nobepseni, ymborenoù odepsonamen upoto p = 9 cos 2 cp nabraco norarpnoi oci 8=32coz24 YE COIT P= -3 12 4 VCO 24 7 9 3 2 9 COS 2 4 S=271 S 3 V Cot 26 = 1 82 4 1 - V3 cot 2 4 + 5. 11 24 d9 = = 18 TT 5 82 4 9 d 4 = - 18TT | = 36TT