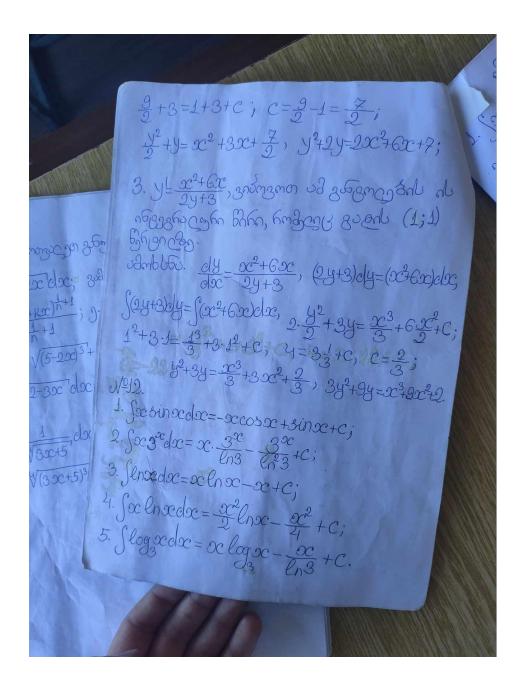


 $\int_{\infty}^{\infty} \int_{\infty}^{\infty} \int_{\infty$ 2. $\int \frac{dx}{x} = \ln x + C$; 3. $\int e^{Rx} dx = \frac{1}{K} e^{Rx} + C$; 4. Sinkocoloc= -1 coskoc+c; 5. Jeoskocoloc=1 sinkoc+c; 6. \(\int_{1+122}^{\frac{1}{2}} = \frac{1}{11} \arctgv \text{R}^2 = \frac by most genhago son is $\frac{1}{2c^n} = xc^n$; $\frac{1}{3}\sqrt[n]{x^m} = xc^n$; $\frac{1}{3}\sqrt[n]{x^m} = xc^n$; 8. Sac-dax+c; 9 $\int \frac{dx}{\sqrt{1-x^2}} + a^2 c \sin x + C$; 10. Jackoc= a^{oc} + C;

806606 93600 ntogoghoca
806000 fradoc= f(x)/= 1-76)-F(a);



1. 13 mgga y = 202+200 engghotensogna gotem. and al abayzhoren baha, hadogy zoal (2; 1) Bohyon (20). whether $y' = \frac{dy}{dx}$, $\frac{dy}{dx} = \frac{x^2 + 2x}{y^2 + 1}$, $(x^2 + 2x) dx = \frac{x^2 + 2x}{y^2 + 1}$ $=(y^2+1)dy$, $\int (x^2+2x)dx = \int (y^2+1)dy$; $\frac{x^3}{3} + 2 \cdot \frac{x^2}{2} = \frac{y^3}{3} + y + c$; 300 pt 80 pt (2;1) Engação, vangana $2^{3} + 2^{2} = \frac{1^{3}}{3} + 1 + C;$ 8 + 4 = 1 + C+1; 8 + 3 - 1 = C; C = 16; $\frac{x^3+x^2-\frac{y^3}{3}+y+\frac{16}{3}}{x^3+3x^2-y^3+3y+16}$ 2. yl-200+3, good (1;3) Bhences 16803hu ฉราคก ผิกคก. ลูกรีการกฤ ป ผิกคก. vanblov. dy - 2x+3, (4+1)dy=(2x+3)dx, $\int (y+1)dy = \int (2x+3)dx$, $\frac{y^2}{2} + y = \frac{x^2}{2} \cdot 2 + 3x + C$, 306m3new 32+3=12+3.1+C,

W910. Bhosanon byouthhol guhorman gudanogojás ganhágona S-27 (foc)/1+ff 1. Byosonian angregam $y=gc^{\frac{3}{2}}(0 \leq gc \leq \frac{1}{4})$ By half 3 by vambbey. amendenn emhalenna $S=2\pi\int_{-\infty}^{4}x^{\frac{3}{2}}\sqrt{1+((x^{\frac{3}{2}})^{\frac{3}{2}})^{\frac{3}{2}}}dx=2\pi\int_{-\infty}^{\frac{1}{4}}x^{\frac{3}{2}}\sqrt{1+(\frac{3}{2}x^{\frac{3}{2}-\frac{3}{2}})^{\frac{3}{2}}}dx=$ $=2\pi\int x^{\frac{3}{2}}\sqrt{1+\frac{9}{4}}x\cos(x)$; zodnanyogo 6062mg- $39000 \ 90000 \ 90000 \ 90000 \ 90000 \ 90000 \ 90000 \ 90000 \ 90000 \ 900000 \ 90000 \ 90000 \ 90000 \ 90000 \ 900000 \ 900000 \ 900000 \$ 2. y=vx, 2=x=6; 2003000! (xx)=(x2)= 3. y=2vx, 3<x<8; zoozgag!

I. zudmazugga zutherbergheren nozaskon Socospesinocoloc; admbbo sinocoloc=-dosoc, O stoggo zodnogogomon Jocke = 2014; g.n. $-5 \cos x \cos x = -5 \cdot \frac{\cos^5 x}{5} \Big|_{5}^{17} = -(\cos^5 \pi - \cos^5 \sigma) =$ 2. J7 sin & cosacla; vamble. cosacla=dsina g.n. 7 (sin & dsinx=7. sin & /2-sin = -sin of - 17-0=1; 3. 10 fac exclas; vanblev. xelx= felx; ubggg zodnenygomon fextoc=lx; g.g. $\frac{10}{(e-4)2} e^{x^2} dx^2 = \frac{5}{e-1} e^{x^2/4} = \frac{5}{e-1} (e-e) =$ = 5 (e-1)=5;

Wo8. 1. zudmozunga zerghuben zenen naggzhunn $\int \sqrt{5-2x} \, dx; \quad 30 \, dn 3 \, n \, y \, 0 \, dn \, 0 \, \int \sqrt{a+kx} \, dx = \frac{1}{2} \frac{(a+kx)^{\frac{1}{n}+1}}{\frac{1}{n}+1}; \quad y \cdot n \cdot \int (5-2x)^{\frac{1}{2}} \, dx = \frac{-1}{2} \frac{(5-2x)^{\frac{1}{2}+1}}{\frac{3}{2}} = \frac{1}{2} \frac{(5-2x)^{\frac{1}{2}+1}}{\frac{3}{2}}$ $=\frac{1}{3}\sqrt{(5-2x)^3}+C;$ $2. \int \sqrt[3]{2-3x} \, dx = \frac{1}{3} \frac{(2-3x)^{\frac{1}{3}+1}}{\frac{4}{3}} = -\frac{1}{4} \sqrt[3]{(2-3x)^{\frac{1}{4}+1}},$ $3. \int \frac{1}{\sqrt[3]{3x+5}} \, dx = \int (3x+5)^{-\frac{1}{4}} \, dx = \frac{1}{3} \frac{(3x+5)^{-\frac{1}{4}+1}}{\frac{3}{2}} = \frac{1}{3} \frac{(3x+5)^{-\frac{1}{4}+1}}{\frac{3}{2}}$ $=\frac{4}{9}\sqrt{(30c+5)^{3}}+C;$

1. გამოთვალთ იმ სჩის ფაჩთოპი, ჩომედიც 3 3 mbob gang car y=4003+1 Bahaa; 20=1,00=2 ന്റുള്ളത്തെ ഉപട്ടിപ്രപ്രവാ ത്രൂർത്ത. vampter. zvamznygomon gmhagoz &= (foode; $\int \cdot \Omega \cdot \int (40c^3+1) dx = \int 40c^3 dx + \int dx = 40c^4/2 + x/2 =$ - 24-14+2-1=16; 2. godnogonja nd shal gohaman, handgang galan-Lub mahano y=50ch Bhanen, obligations mandra es x=2 bhoson 2 $\sqrt{5}x^4 dx = 5 \cdot \frac{x^5}{5} / \frac{2}{5} = 2^5 - 0 = 32$; 3. zodmogsego na shah gohaman, hmangg anan-เขอการการ y=300-6 30ho3manon go y=6 6hanon. งอีกปรับ. ลูกวีกลูกล กษีผูวลูกลึกป บงายกลุกลึก, ผลิปon al samples sugar on 302-6-6, 22=4, oc=+2, oc=-2, oc=2; automán notas bloum-30 $\frac{2}{3} \cos^2 - 6 \cos - \frac{2}{3} \cos \cos \frac{2}{3} - \frac{2}{3} \cos \frac{2}{3} - \frac{2}{3} \cos \frac{2}{3} \cos$

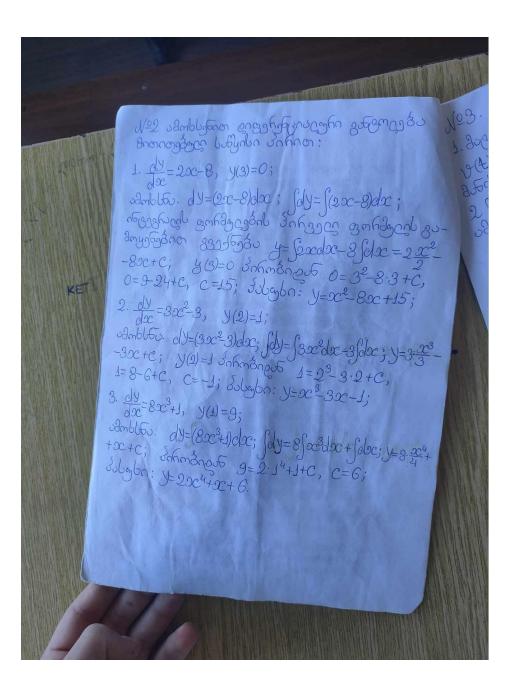
1. zudnoguego $\int \frac{1}{5} \sin 2x \, dx = \int \frac{2}{5} \frac{2}{\sin x} \cos x$ = $2\int \cos x \cos x = 2\sin x - 2\sin \frac{\pi}{2} - \sin \frac{\pi}{6} = 2\sin \frac{\pi}{6}$ $2. \int \frac{1+4\cos^2x}{\cos^2x} dx = \int (\frac{1}{\cos^2x} + 4) dx = \int \frac{dx}{\cos^2x} + \frac{1}{2} \cos^2x + \frac{1}{2} \cos^2x$ $+4 \int_{0}^{\frac{\pi}{4}} \frac{1}{4} \int$ 3. $\frac{10}{17} \int_{1}^{1} \frac{dx}{3+3x^2} = \frac{10}{17 \cdot 3} \int_{1}^{1} \frac{dx}{1+x^2} = \frac{4}{17} \operatorname{arctgx} \Big|_{1}^{2} = \frac{4}{17} \operatorname{arc$ = # (arctg1-arctgfs)= 4 (#+arctg1)= = # (#+#) # 2 = 2;

1. zvdmozwazon \$\frac{1.50c4-30c2}{2}; wholeto. $\int_{0}^{1} \frac{5x^4 - 3x^2}{2} = \frac{5 \cdot x^2}{5} = \frac{5 \cdot x^3}{5} = \frac{3 \cdot x^3}{3} = \frac{3}{3} = \frac{3}{3}$ $=\frac{1}{2}(15-0)-\frac{1}{2}(13-0)=0;$ 2. $\int_{-\infty}^{2} (3x^{2}-2x)dx = \int_{-\infty}^{2} (3x^{2}-2x)dx = 3\frac{x^{3}}{3}/\frac{2}{3} - 2\frac{x^{2}}{3}$ $=2^{3}-0-2^{2}-0=4;$ 3. $\int \frac{3x^{5}-2x^{4}}{x^{3}} dx = \int \left(\frac{3x^{5}}{x^{3}} - \frac{2x^{4}}{x^{3}}\right) dx = \int 3x^{2} dx$ $\int_{2}^{2} x \, dx = 3 \cdot \frac{x^{3}}{3} \Big/_{2}^{2} - 2 \cdot \frac{x^{2}}{2} \Big/_{2}^{2} = 2^{3} \cdot 1^{3} - (2^{2} - 1^{2}) =$

Nº4 zutlubyzhan ntzzhon 1. გამოთვა გეთ $\int (5-4)x^3)dx$; Samble 5 fax - 4 fx3dx; gsamnys 53. genhages fcolor= F(x)/b = F(b) - F(a); g. n. $5x/\frac{1}{2}-4$, $\frac{x^{4}/1}{24}=5(1-0)-(1^{4}-0)=4$; 2. $\int_{0}^{2\pi} (x^{3} + \frac{3x^{2}}{4}) dx = \int_{0}^{2\pi} x^{3} dx + \frac{3}{4} \int_{0}^{2\pi} x^{2} dx = \frac{x^{4}}{4} \int_{0}^{2\pi} x^{2} dx = \frac{x^{4}}{4}$

2367 3480 July 80 1. Logghow night Bohenen Londhumal whole gulting (t)=(t2+1) 1/19 lahjuhan. nomgon guzanan S(t)

2 tangun guzanan guzanan guzanan sangun gamalanan, ang Jahzonan sangun gamalanan, ang Jahzonan sangun gamalanan sangun gamalanan sangun s 2 60830 35 200060 58. valobles. Jutidor S(t)= (v(t) dt, borg S(2)=5; 2.0. $S(t) = \int (2^{t}+1)dt = \int 4^{2}dt + \int dt = \frac{4^{3}}{3} + 4 + C$; $\int 3^{1} dt + \int 3^{1} dt + \int 3^{1} dt = \int 3^{1} + 2 + C$; $\int 3^{1} dt = \int 3^{1} dt + \int 3^{1} dt = \int 3^{1} dt + \int 3^{1} dt = \int 3^{1} dt + \int 3^{1} dt = \int 3^{$ $C=\frac{1}{3}$; Subgron: $S(t)=\frac{1}{3}t^3+4+\frac{1}{3}$; 2. $9=(2+3)\frac{2}{69}$, S(3)=22; 306gbn: S(t)= 22+3t+4; 3. $V = (34^2 + 24)\frac{9}{69}$, S(2) = 16; 3. bodon: S(4)= +3++2+4; 2 20 3 ამოცანები გააკეთე 1-1 მსგავსად.



sambles. (3x2-sin5xc)dx=3 (3c2dx-Jsin5xdx; admanystomer amhalogian: $\int x^n dx = \frac{x^{n+1}}{n+1} + C$, $\int x^n dx = \frac{1}{k} \cos kx + C$; $\int x^n dx = \frac{x^{n+1}}{n+1} + C$, 3. $\int_{0}^{2} \cos^{2} dx = 3 \cdot \frac{x^{3}}{3} + C$; $\int_{0}^{2} \sin 5x dx = \frac{1}{5} \cos 5x + C$; 30 beylon: 203+ 1 cos52c+C. 2. $\int (\frac{1}{2x} + \cos 30c) dx = \frac{1}{2} \int \frac{dx}{x} + \int \cos 3x dx$; зидтелить $\int \frac{dx}{x} - \ln x + C$, $\int \cos x \cos x = 0$ = frinkoc+C; g.n. Solombn: flnoc+frinzoc+C; $3 \cdot \int (e^{2x} + \frac{1}{1 + 25x^2}) dx = \int e^{2x} dx + \int \frac{dx}{1 + 25x^2};$ gudmanyotmon: Se Kocloc= K CKoc; Jak Kocl = tarctg/Roc+C; Sugar: 2eox+ tarctg50c+C;