ТЕТРАДЬ

для Типовой раскет по Ии ЛУ

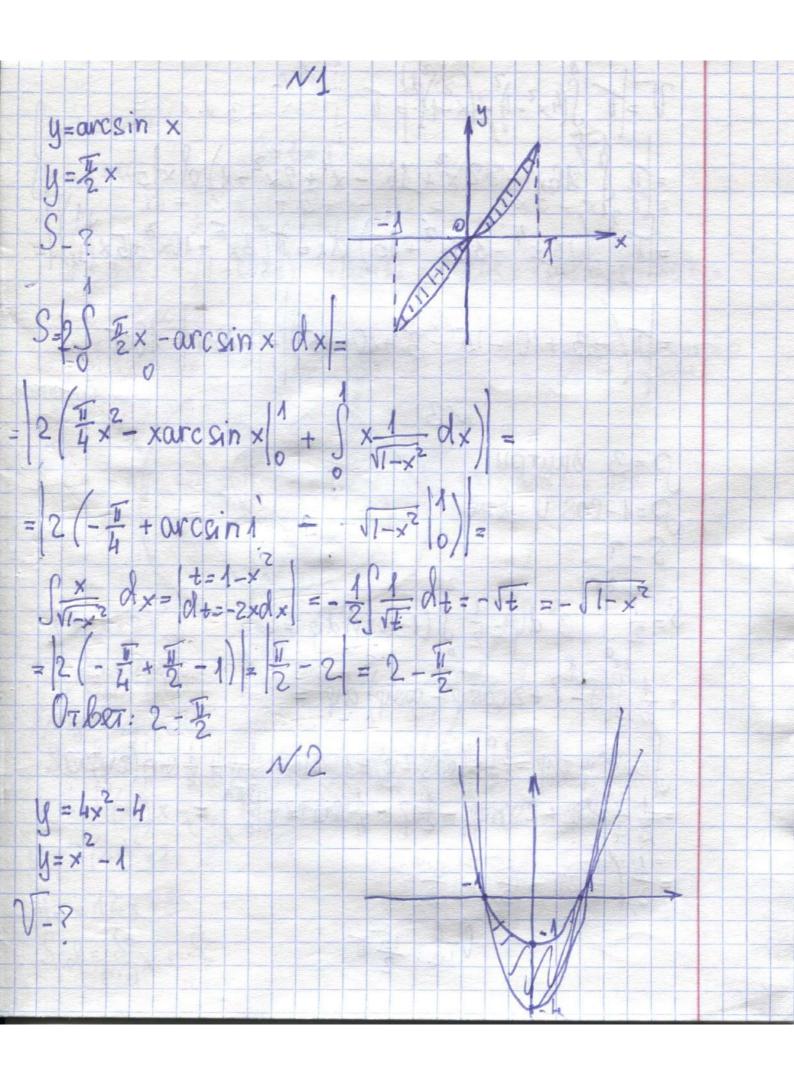
16 Вариант

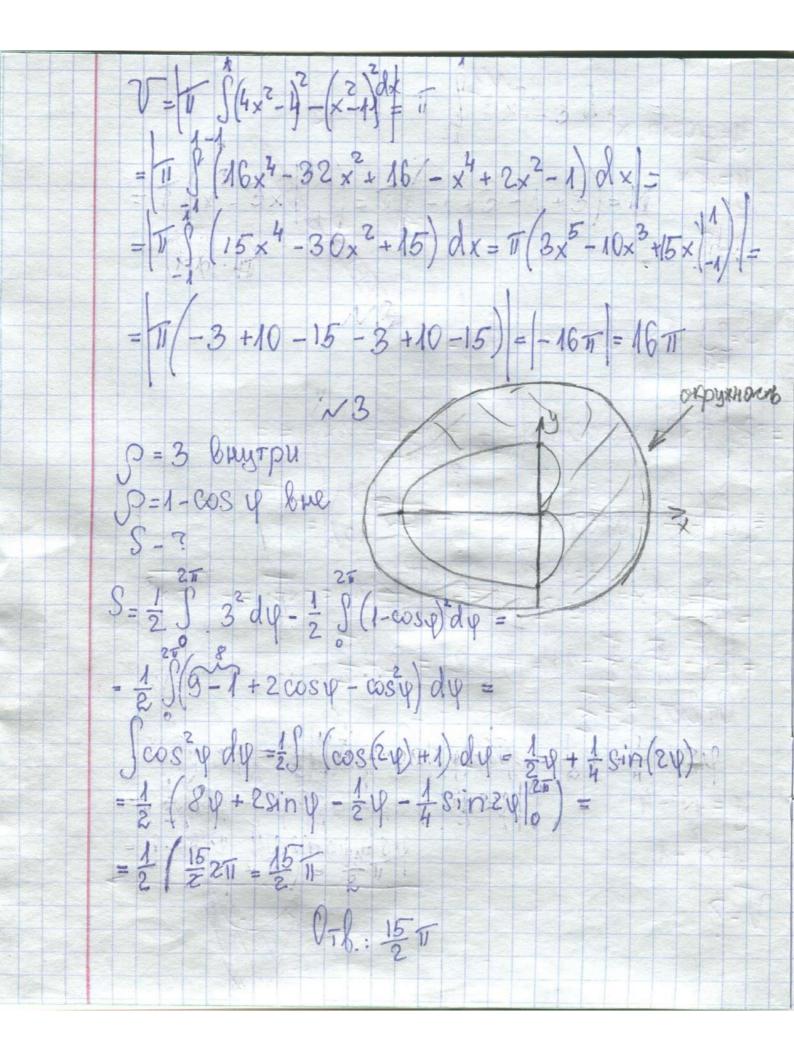
учени класса

РК6-26 Б школы

Летрасова

Станислава





y=1+00st = 05±511 x=t-sint 1-2 l= S V(x')2+(y')2 dt (x') + (y') = (1-cost) + (Sint) = 1-200st+cost+1-cost = $-2 - 2\cos t = 2(1 - \cos t)$ Pol-cost dt = J2 Sin & dt = Tr tero, Ts ege sint >0 = 12 | sin = dt = -2/2 cos = P= -452 cos = | = -452 cos = 452 O-let: 4/2 y = (x+2) 3 x ≤0 cac. 67. heperer. y >0 cocho 0 y -bray. horryz 0 x Snob-8 y=ax+6 8=0x+5=>6=8 (-6;64) 4 = 3 (x+2)2 · 1 = 12 S=2T (f(x)(1+(f'(x))2dx 4x=12x+8 Snob = S + S 2

1) S = 27 S (x+2) 1+ (3(x+2)2)2 dx = $= 2\pi \int_{0}^{2\pi} (x+2)^{3} \sqrt{1+9(x+2)^{4}} dx+2 = |t=x+2| = -1$ $= 2\pi \int_{0}^{2} t^{3} \int_{0}^{1} t^{9} t^{4} dt = |u = 1 + 9 t^{4}| |u = 1 + 9 t^{4}$ $= \frac{1}{18} \left(\frac{u^{\frac{3}{2}}}{3} \right) \frac{145}{1} = \frac{11}{27} \left(\sqrt{145^{-3}} - 1 \right) = \frac{11}{27} \left(145 \sqrt{145^{-4}} - 1 \right)$ 2) Sz = 2TT S(12x+8) V1+12 dx = 25145 S (12x+8) = = 2 1/45 TI (6x2 +8x | 0 = 2 1/45 TI = (6.0+8.0 - 6.4/9 +8.2/3) = = 25145 7 . 8 = 165145 11 $S = \frac{\pi}{27} \left(145 \sqrt{145} - 1 \right) + \frac{16\sqrt{145}}{3} \pi = \pi \frac{289\sqrt{145} - 1}{27}$ Orber: 11 2895145 -1

 $\int_{1}^{2} \ln \frac{x^{2}+5}{x^{2}+4} dx = \lim_{x \to +\infty} \int_{1}^{2} \ln \frac{x^{2}+5}{x^{2}+5} dx = \lim_{x \to +\infty} \int_{1}^{2} \ln \frac{x^{2}+5}{x^{2}$ $\int 2n \frac{x^2 + 5}{x^2 + 4} dx = x \ln \frac{x^2 + 5}{x^2 + 4} + \int x \frac{x^2 + 4}{x^2 + 5} \frac{1}{(x^2 + 4)^2} dx =$ $= \times \ln \frac{x^{2}+5}{x^{2}+4} + 2 \int \frac{x^{2}}{(x^{2}+5)(x^{2}+4)} = \times \ln \frac{x^{2}+5}{x^{2}+4} + 2 \int \frac{5}{(x^{2}+5)} - \frac{4}{x^{2}+4} dx =$ = x ln x + 5 + 2 (1 arcty = - 1 arcty =) $(3) \lim_{n \to +\infty} \left(x \ln \frac{x^2 + 5}{x^2 + 4} + \frac{2}{\sqrt{5}} \operatorname{carcy} \frac{x}{\sqrt{5}} - \operatorname{carctg} \frac{x}{2} \right) =$ = $\lim_{a \to +\infty} \left(a \ln \frac{a^2 + 5}{a^2 + 4} + \frac{2}{\sqrt{5}} \operatorname{arctg} \frac{a}{\sqrt{5}} - \operatorname{arctg} \frac{a}{2} \right) - \left(\ln \frac{6}{5} + \frac{2}{\sqrt{5}} \operatorname{arctg} \frac{1}{\sqrt{5}} \right)$ $-\operatorname{arctg}\frac{1}{2} = \lim_{\alpha \to +\infty} \operatorname{aln}\frac{a^2 + 5}{a^2 + 4} \qquad + \frac{2}{\sqrt{5}} \lim_{\alpha \to \infty} \operatorname{arctg}\frac{\alpha}{\sqrt{5}} - \frac{1}{\sqrt{5}}$ $-\lim_{n\to+\infty} avotg^{\frac{\alpha}{2}} - k = \lim_{n\to+\infty} a\ln\left(\frac{0^{\frac{2}{n}}}{a^{2}+h}\right) + \frac{5}{a^{2}+h} + \frac{2}{\sqrt{5}\cdot 2} - \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{5}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{5}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{5}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{5}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{5}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{5}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{5}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{5}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{5}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{\sqrt{5}} + \frac{1}{2} - k = \lim_{n\to+\infty} a\ln\left(\frac{1}{1+\frac{4}{n^{2}}}\right) + \frac{1}{2} + \frac{1}{2$ = 15 = 2 - 2 arcto 1 = arcto 2 >> witer bas

