$$\int_{1}^{2} \frac{1}{x^{4}} \frac{1}{x^{3}} dx = ?$$

$$\frac{1}{x^{4}} \frac{1}{x^{2}} = \frac{A}{x} + \frac{Bx + C}{1 + x^{2}} = \frac{A(1 + x^{2}) + Bx^{2} \cdot Cx}{x(1 + x^{2})}$$

$$\frac{1}{x^{4}} \frac{1}{x^{2}} = \frac{A}{x^{2}} + \frac{Bx + C}{x^{2}} = \frac{A(1 + x^{2}) + Bx^{2} \cdot Cx}{x(1 + x^{2})}$$

$$= \frac{A}{x^{2}} = \frac{1}{x^{2}} + \frac{A}{x^{2}} = \frac{A(1 + x^{2}) + Bx^{2} \cdot Cx}{x(1 + x^{2})}$$

$$= \frac{1}{x^{2}} = \frac{1}{x^{2}} + \frac{1}{x^{2}} = \frac{1}{$$

$$\int_{0}^{1} x (1+x) dx = \int_{0}^{1} (t^{2}-1) + d(t^{2}-1)$$

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Recoultance na ruga confedera 3ay. Da ce represente nuyero na dourypara or panurena or $y = x^2 + 4x + 3$, x = 0, y = 0B) (1-x2 4 X=0 (orp are 4 or y=1, y=-1) r) y=-x2+6x-7 u y=x-3

 $\begin{cases} f(x) = g(x)? \\ y = x^2 \end{cases}$ $\begin{cases} y = x^2 \end{cases}$ $f(x) = g(x)? \\ f(x) \geq g(x)? \\ (0,1)$

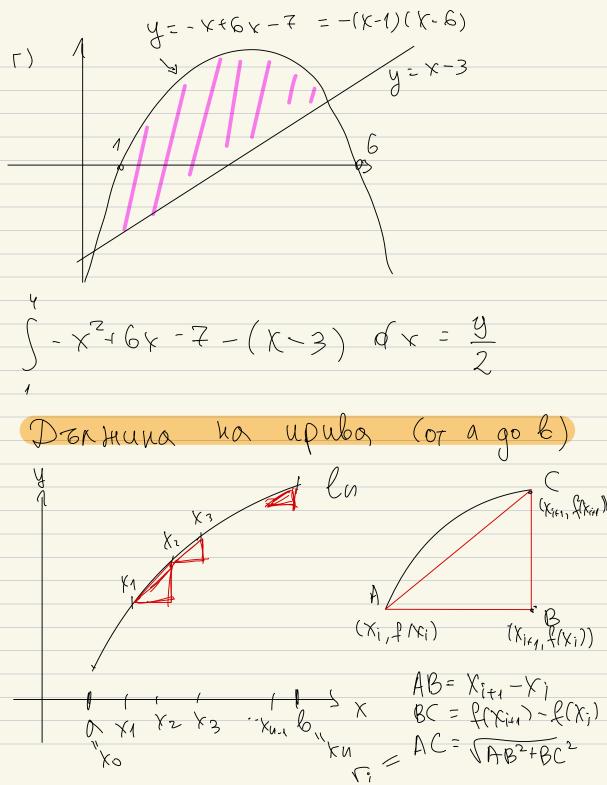
3 NOTELY TOPCHEN $\int_{1}^{1} X - \chi^{2} d\chi = \frac{\chi^{2}}{z} - \frac{\chi^{3}}{3} \Big|_{0}^{1} = \frac{1}{\zeta}$

 $S = G_1 + G_2$ (0,3) $X^2 - U_X + 3 = (X-1)(X-3)$ $X = G_1 + G_2$ $X = G_2 + G_3$ $X = G_1 + G_2$ $X = G_1 + G_2$ $X = G_2 + G_3$ $X = G_1 + G_2$ $X = G_1 + G_2$ $X = G_1 + G_2$ $X = G_2 + G_3$ $X = G_1 + G_3$ $X = G_1 + G_2$ $X = G_1 + G_2$ $X = G_2 + G_3$ $X = G_3 + G_4$ $X = G_4 + G_4$ $X = G_1$

$$S_{2} = -\int_{1}^{3} \chi^{2} - (\gamma x + 3) = \frac{4}{3} = S = S_{1} + S_{2} = \frac{8}{3}$$

$$0) \qquad \text{the now, the now, the nown of the nown$$

 $= 2 \int \omega S^{2} \varphi \, d\varphi = \int \omega S^{2} \varphi + 1 \, d\varphi = R^{2} \pi$ $= 2 \int \omega S^{2} \varphi \, d\varphi = \int \omega S^{2} \varphi + 1 \, d\varphi = R^{2} \pi$ $= 2 \int \omega S^{2} \varphi + 1 \, d\varphi = R^{2} \pi$ $= 2 \int \omega S^{2} \varphi + 1 \, d\varphi = R^{2} \pi$ $= 2 \int \omega S^{2} \varphi + 1 \, d\varphi = R^{2} \pi$



$$e(f)_{x \in [a,b]} = \sum_{i=1}^{n} \Gamma_i$$

 $= \int |\chi^2 + 1| \, d\chi = \int \chi^2 + 1 \, d\chi = \left(\frac{\chi^3}{3} + \chi\right) \left(\frac{1}{5} = \frac{4}{3}\right)$

$$\sum_{u=1}^{N} \left(x = \sqrt{\left(x + 1 - x \right)^2 + \left(+ \left(x + 1 - x \right)^2 + \left(+ \left(x + 1 - x \right)^2 + \left(x + 1 - x$$

$$-\frac{1}{2} \left[\chi_{u+1} - \chi_{u} \right] \cdot \left[1 + f'(\xi_{u})^{2} \right] = R_{\pi} \left[\left(\chi_{u}, \chi_{u+\ell} \right) \right]$$

$$f(\xi_{u}) = R_{\pi} \left[\chi_{u+\ell} - \chi_{u} \right] \cdot \left[\left(\chi_{u}, \chi_{u+\ell} \right) \right]$$

lim
$$l(f)$$
 $|x \in [a, b] = \int_{a}^{a} (1+f(x)^{2}) dx$
 $gannuna ua$

$$3ag. f(x) = \frac{1}{3}(x^{2}+2)^{3/2} f'(x) = x^{2}(x^{2}+2) = x^{4}+2x^{2}$$

$$\int (1+f'(x)^{2}o(x)) = \int (1+2x^{2}+x^{4}) o(x) = \int (x^{2}+1)^{2}o(x) = x^{4}$$

$$300. \quad f(x) = \frac{1}{3} (x^2 + 2)^{1/2} \quad f'(x) = x^2 (x^2 + 2) = x^4 + 3$$

$$(1 + f'(x)^2 o(x) = \int (1 + 2x^2 + x^4) o(x) = \int (x^2 + 1)^2 o(x) = 0$$





