(65) Memog payuorearenzaisine Unemerpano Conga R/x, Vax2+bx+c) olx. Cecyrain aso. Humenp.

Memog paymonarmezaques. Пусть и некотерая пришан сини на писе-ти Оху IN E Komepair genjoxaem parsuona ele supro napamet->x pujaisuro 4(t), 4(t) - paisuron. grues om t. (Ky) EZE JEER, K=4(H), Y=4(t) Paeen gruso R(x,y) - pay grus om 2x nepercueveroux xuy, morga $\int R(x,y)dx = \begin{bmatrix} x=y(t) & dx = y'(t)dt \end{bmatrix} = \int R(y(t),y'(t)) y'_t dt$ $(x,y) \in \mathcal{X} \quad \{y=y'(t) \} \quad \{y=y'($

O Togemanobra Firepa

$$\int R(x, \sqrt{ax^{2}+bx+c})dx =$$
a) a>0
$$= \int R(\frac{c-t^{2}}{2\sqrt{a}t-b}; \frac{c\sqrt{a}+at^{2}}{2\sqrt{a}t-b}+t)(\frac{c-t^{2}}{2\sqrt{a}t-b}) dt$$

 $a \neq 0, a > 0$ $f = \sqrt{\frac{2}{6}} + \frac{1}{6} + \frac{1}{2} + \frac$

/yevax+t(acummora)

ax 2+2 vax ++ t2= ax + 6x +c =>

Thegomanobua

Jat-B

Janepa

Marinepa

Marinep y = cva - vat2 +t + th)
xpay, go-us

$$\frac{f_{\text{pureue}}}{\int \frac{dx}{x - \sqrt{x^2 - 1}}} = \frac{1}{2} \int \frac{(t^2 - 1) dt}{t} = \frac{1}{2} \int (t - \frac{1}{t}) dt = \frac{t^2}{4} - \frac{1}{2} \ln|t| + C = \frac{1}{4} \left(x + \sqrt{x^2 - 1}\right) - \ln|x - \sqrt{x^2 - 1}| + C$$

$$y = \sqrt{x^{2}-1}$$

$$h_{1} : x^{2}-y^{2} = 1$$

$$y = x+t$$

$$x^{2}-y^{2}-t$$

$$x^{2}-x^{2}-2xt-t^{2}=1$$

$$x = -\frac{t^{2}+1}{2t} = -\frac{t}{2} = -\frac{1}{2}(t+\frac{t}{4})$$

$$dx = -\frac{1}{2}(1+\frac{1}{2}x)ctt$$

$$y = -\frac{t^{2}+1}{2t} + t = \frac{t^{2}-1}{2t}$$