Professore ordinario di Ma

Ne segue

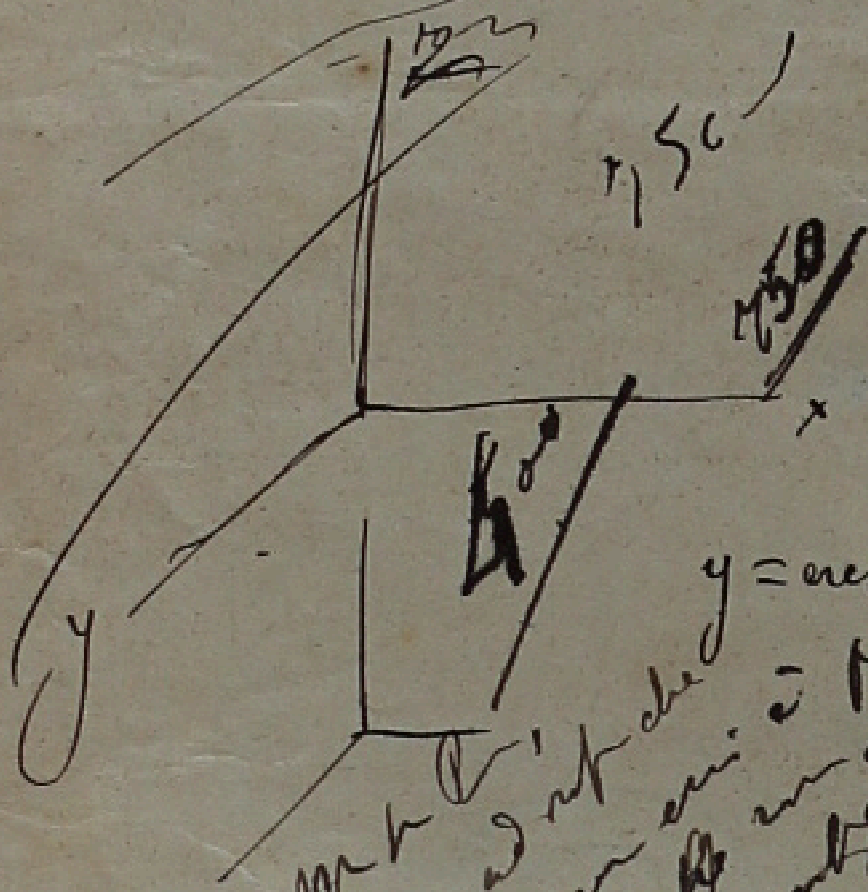
Via S. Felice 32

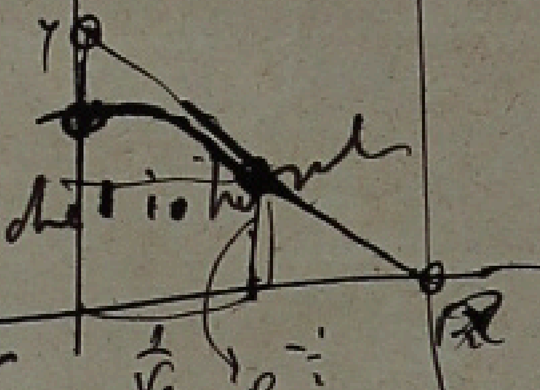
3

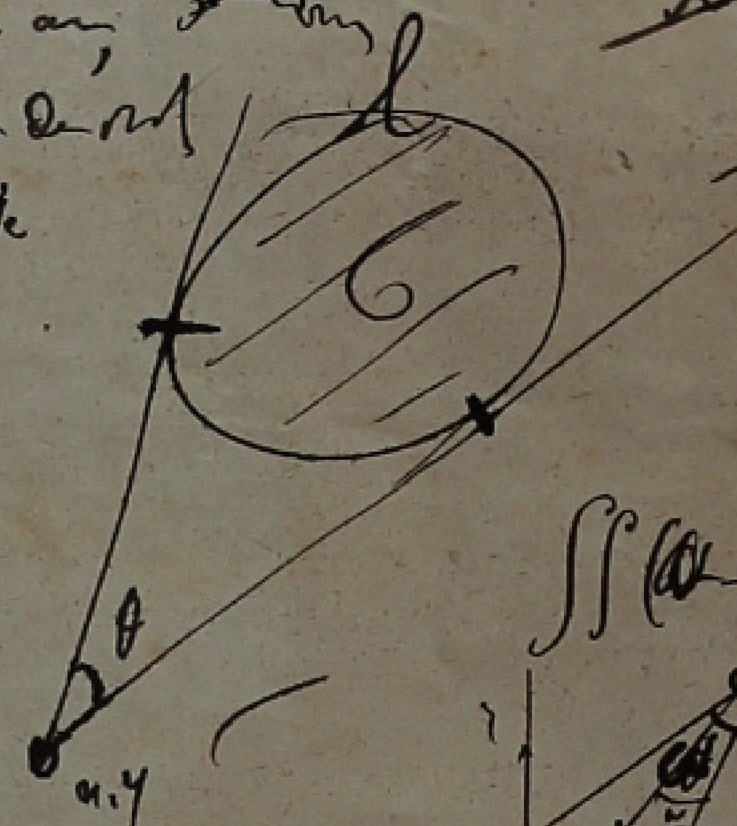
$\frac{\partial^2 u}{\partial t^2} =$

Mi, [illegible] De Rossi (canti), Negri (Brunt), Monari (Virand).

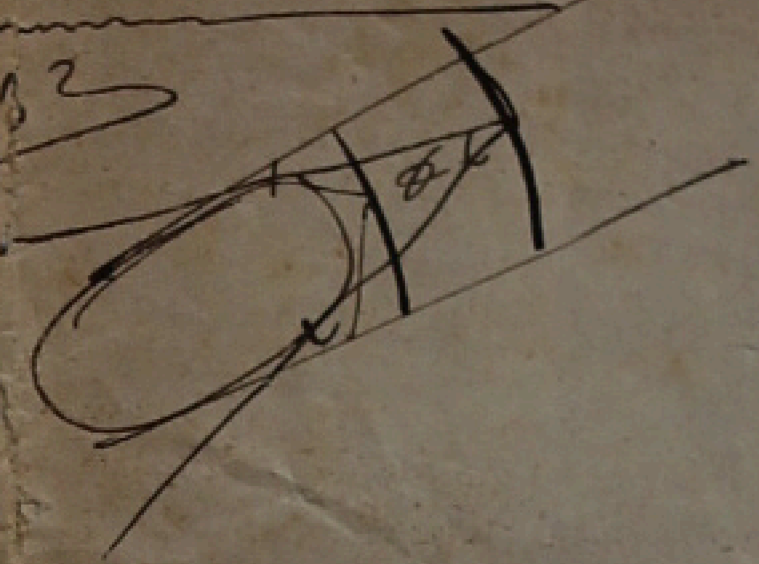
equiv

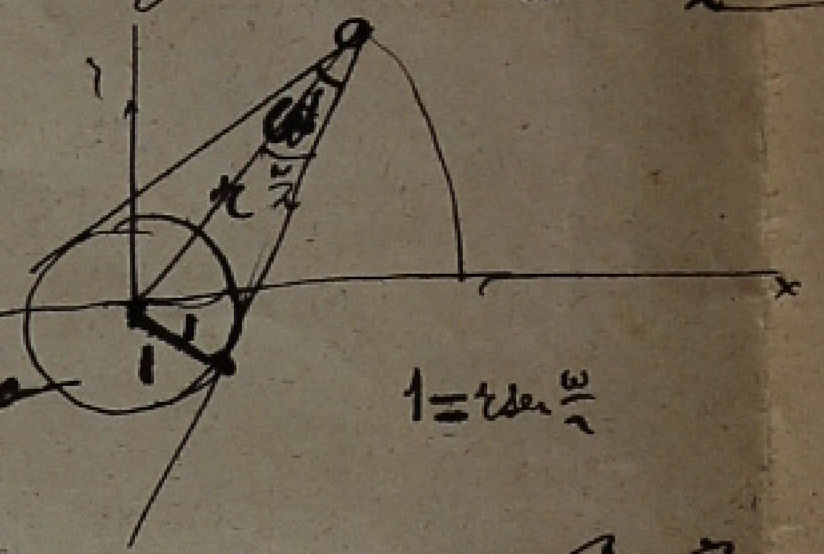






$$\iint (\omega - \sin\omega)\, dx\, dy = \frac{1}{2} l^2 - \pi\sigma$$





$y = \arcsin x$

Scientifico

unir

$1 = r \sin\frac{\omega}{2}$

$l = 2\pi$

$\sigma = \pi$

Education

$y' = -e^{-x^2} \cdot 2x$

$y'' = -e^{-x^2} \cdot 2 + e^{-x^2} \cdot 4x^2$

$2x^2 = 1$

$x = \frac{1}{\sqrt{2}}$

$y' = -e^{-\frac{1}{2}} \sqrt{2}$

$y - e^{-\frac{1}{2}} = \left(x - \frac{\sqrt{2}}{2}\right) e^{-\frac{1}{2}}$

$y = e^{-\frac{1}{2}}(2 - x\sqrt{2})$

$x = \sqrt{2}$

$$\iint (\omega - \sin\omega)\, dx\, dy = \pi^2$$

$r = 1, \ \omega = \pi$

$r = \infty, \ \omega = 0$

$$\iint (\theta - \sin\theta)\, r\, dr\, d\theta = \pi^2$$

$$\int_0^{2\pi} \int (\theta - \sin\theta)\, d\theta$$

$r = \frac{1}{\sin\frac{\omega}{2}}$

$dr = -\frac{\cos\frac{\omega}{2}}{2\sin^2\frac{\omega}{2}}\, d\omega$

$$\iint (\omega - \sin\omega)\, r\, dr\, d\theta = \pi^2$$

$$\int d\theta \left\{ \int_1^\infty (\omega - \sin\omega)\, r\, dr \right\} = \frac{\pi}{2}$$

4

points

points

W. Dyck

$\sin\frac{\omega}{2} = \frac{1}{2}$

$\sqrt{1 - \frac{1}{4}}$

$\cos\frac{\omega}{2} = \frac{\sqrt{2^2 - 1}}{2}$

$\omega = 2\arcsin\frac{1}{2}$

$\sin\omega = \frac{4\sqrt{2^2-1}}{2^2}$

$$\int_0^{\pi} (\omega - \sin\omega) \frac{\cos\frac{\omega}{2}}{\sin^3\frac{\omega}{2}}\, d\omega = \pi \ ?$$

$2\,\mathrm{arccot}\frac{1}{2} - 2\sqrt{2} \ldots$

$$\int (\omega - \sin\omega) \frac{\cos\frac{\omega}{2}}{\sin^3\frac{\omega}{2}}\, d\omega$$

$+ 4\cot\frac{\omega}{2}$

$\cot\frac{\pi}{2}$

$$\int_0^{\pi} \omega \frac{\cos\frac{\omega}{2}}{\sin^3\frac{\omega}{2}}\, d\omega = 2\int_0^{\pi} \frac{\cos\frac{\omega}{2}}{\sin^2\frac{\omega}{2}}\, d\omega = \pi$$

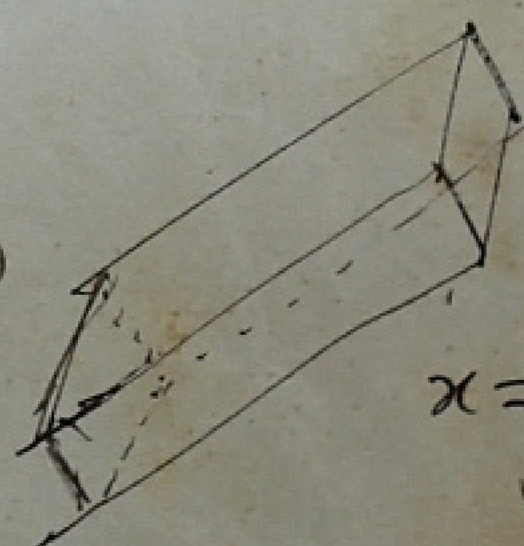
$$-2\int_0^{\pi} \frac{d\omega}{\sin^2\frac{\omega}{2}} + \ldots = -\pi$$

Ill.mo

Sig.r Prof. Ernesto Cesàro

Rombo

Rombo



Fienga

$$x = \int_0^{\varphi} \frac{\cos 2\varphi}{(1 - e^2 \sin^2\varphi)^{\frac{3}{2}}} d\varphi$$

$$y = \int_0^{\varphi} \frac{\sin 2\varphi}{(1 - e^2 \sin^2\varphi)^{\frac{3}{2}}} d\varphi$$

$$y = \frac{2}{e^2}\left(\frac{1}{\sqrt{1-e^2}} - \frac{1}{\sqrt{1-e^2\sin^2\varphi}}\right)$$

$$d\frac{1}{\sqrt{1-e^2\sin^2\varphi}} = -\frac{e^2 \sin 2\varphi}{2(\sqrt{\quad})^3} d\varphi$$

$$\int \frac{2\cos^2\varphi - 1}{(1-e^2\sin^2\varphi)^{\frac{3}{2}}} d\varphi$$

$\cos\varphi = t$

$$y = -\frac{2}{e^2}\left[\frac{1}{\sqrt{1-e^2\sin^2\varphi}} - \frac{1}{\sqrt{1-e^2}}\right]$$