$p = y\cos\varphi - \cancel{x\,\mathrm{sen}\,\varphi}$

$\cancel{x = s}$

$\dfrac{p + x\,\mathrm{sen}\,\varphi}{\cos\varphi}$

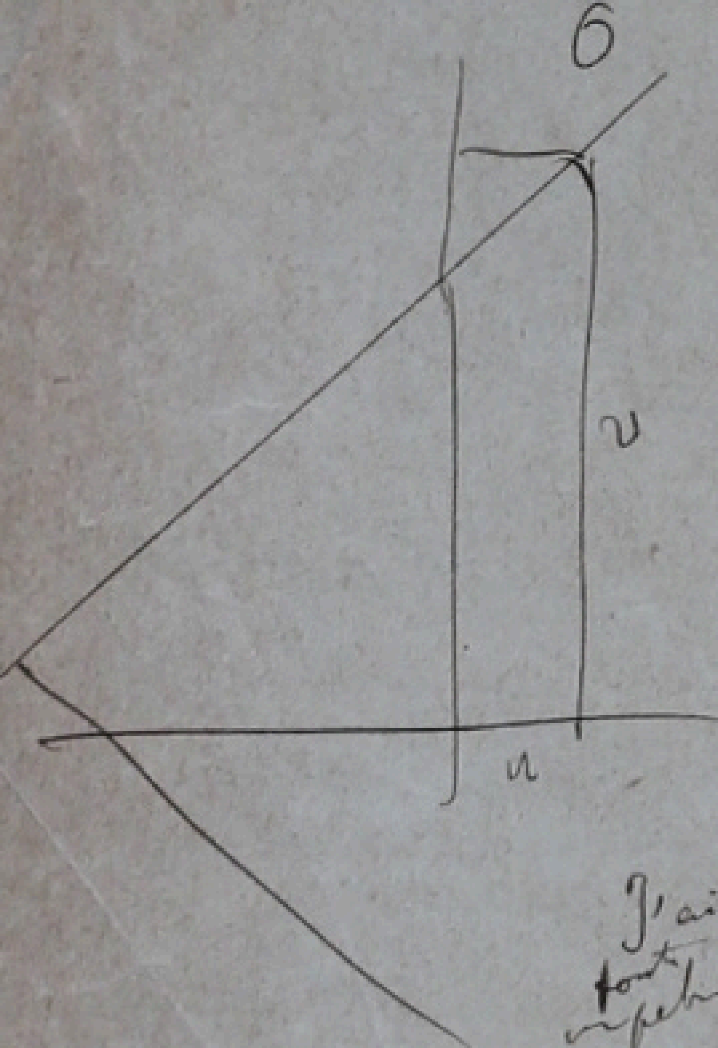
$$\begin{cases} x = -s \\ y = \dfrac{p - s\,\mathrm{sen}\,\varphi}{\cos\varphi} \end{cases}$$

$\cancel{x = }$

$\cancel{\dfrac{x}{+s} + \dfrac{y\cos\varphi}{p - s\,\mathrm{sen}\,\varphi}} = 0$

$\cancel{(p - s\,\mathrm{sen}\,\varphi)x + sy\cos\varphi} = 0$

$$p x = s(x\,\mathrm{sen}\,\varphi - y\cos\varphi) \qquad (1)$$



$$\cancel{x\,\mathrm{sen}\,\varphi} + p\left(\frac{y}{\rho} - 1\right) = \cancel{x\,\mathrm{sen}\,\varphi} - y\cos\varphi \cancel{+ \frac{s}{\rho}(x\cos\varphi + y\,\mathrm{sen}\,\varphi)}$$

$$+ s\left[\left(\frac{y}{\rho} - 1\right)\mathrm{sen}\,\varphi + \frac{x}{\rho}\cos\varphi\right]$$

$$p\left(\frac{y}{\rho} - 1\right) = -y\cos\varphi - s\,\mathrm{sen}\,\varphi \qquad (2)$$

Monsieur,

J'ai l'honneur de vous envoyer ... pour ... présenter par l'intermédiaire des C.R. ... toute ... et d'un [illegible] ... Je prie de ... l'un de deux ... à la théorie ... exemple ... est dû ... l'honneur de ... mon nom ... ainsi ... petites [illegible]

$\cancel{px = sx\,\mathrm{sen}\,\varphi} - s$

$$\frac{p}{\rho}y - p = -y\cos\varphi - s\,\mathrm{sen}\,\varphi$$

$$2\frac{\mathrm{sen}\,\varphi}{\rho}y - \frac{p\rho'}{\rho^2}y + \frac{px}{\rho^2} - \cancel{p\rho} = \cancel{\ldots} + \frac{s}{\rho}\cos\varphi + \frac{x}{\rho}\cos\varphi$$

indiciamento [illegible] ... l'egregio [illegible]

$\boxed{p = \nu}$ $\quad \underbrace{\dfrac{\nu(\nu-1)}{2} + 1}, +2, \ldots, n - 1 - \dfrac{\nu(\nu-1)}{2}$

$N + \nu$

Se che Ella mi [illegible] ... al suo antico [illegible]

2

$\dfrac{p}{q}$ $\qquad \nu_k = \left[\dfrac{2^k \cancel{q}}{p\,\cancel{q}}\right]$

$\nu \leq 2^k \dfrac{p}{q} < \nu + 1$

$\dfrac{1}{2}$

$\dfrac{1}{3}$ $\qquad \nu_k = \left[\dfrac{2^k}{3}\right]$

0 0 ..

$\nu_0 = 0$	0	
$\nu_1 = 0$	0	0,010101 ..
$\nu_2 = 1$	1	
$\nu_3 = 2$	0	
$\nu_4 = 5$	1	
$\nu_5 = 10$	0	

$\dfrac{\frac{1}{2^k}}{1 - \frac{1}{2^k}}$ 4 $\qquad \dfrac{1}{2^k - 1}$ $\qquad \dfrac{1}{k}$ $\qquad \dfrac{1}{3}$

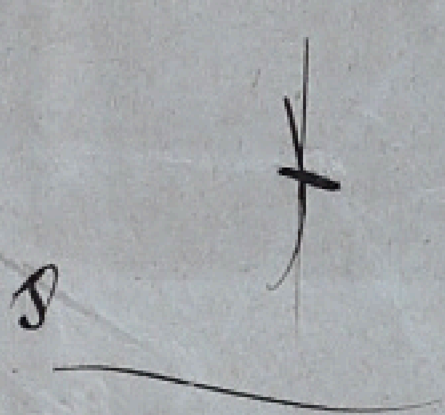
$$\rho = -ka\int \frac{d\theta}{(1+k\operatorname{sen}\theta)^2} \qquad \operatorname{tg}\frac{\theta}{2} = t$$

$$\int \frac{d\theta}{(1+k\operatorname{sen}\theta)^2} = 2\int \frac{(1+t^2)\,dt}{\cancel{(1+t^2)}\left[1+t^2+k\,\frac{2t}{\cancel{1+t^2}}\right]^2}$$

$$\rho = -2ka\int \frac{(1+t^2)\,dt}{(1+2kt+t^2)^2}$$

$$\frac{\rho}{-2ka} = \int \frac{dt}{1+2kt+t^2} - 2k\int \frac{t\,dt}{(1+2kt+t^2)^2}$$

$$\frac{d\theta}{ds} = \frac{1}{\rho} \qquad s = \int \rho\, d\theta$$



$$s_1 = \rho$$
$$\rho_1 = \rho\rho'$$

$$\frac{d\theta}{ds} = \frac{1}{\rho}$$

$$\rho_1 = \frac{ds_1}{d\theta}$$

$$\begin{cases} s_1 = -\int \dfrac{ka\,d\theta}{(1+\ldots)^2} \\[2ex] \rho_1 = -\dfrac{ka}{(1+k\operatorname{sen}\theta)^2} \end{cases}$$

$$s_2 = \rho_1$$
$$\rho_2 = \frac{d\rho_1}{d\theta}$$

$$s_2 = -\frac{ka}{(1+k\operatorname{sen}\theta)^2}$$
$$\rho_2 = \frac{2k^2a\cos\theta}{(1+k\operatorname{sen}\theta)^3}$$

$$\frac{s}{\rho} = -\frac{1+k\operatorname{sen}\theta}{2k\cos\theta} \qquad (1+k\operatorname{sen}\theta) = \sqrt{-\frac{ka}{s}}$$

$$\cos^2\theta = -\frac{a\rho^2}{4ks^3}$$

$$k^2 = \left(\sqrt{-\frac{ka}{s}}-1\right)^2 - \frac{ka\rho^2}{4s^3} \qquad \frac{s\sqrt{s}}{\rho} = -\frac{\sqrt{-ka}}{2k\cos\theta}$$

$$k^2 = 1 - 2\sqrt{\frac{-ka}{s}} - \frac{ka}{s} - \frac{ka\rho^2}{4s^3} \qquad \frac{s^3}{\rho^2} = \frac{-ka}{4k^2\cos^2\theta}$$