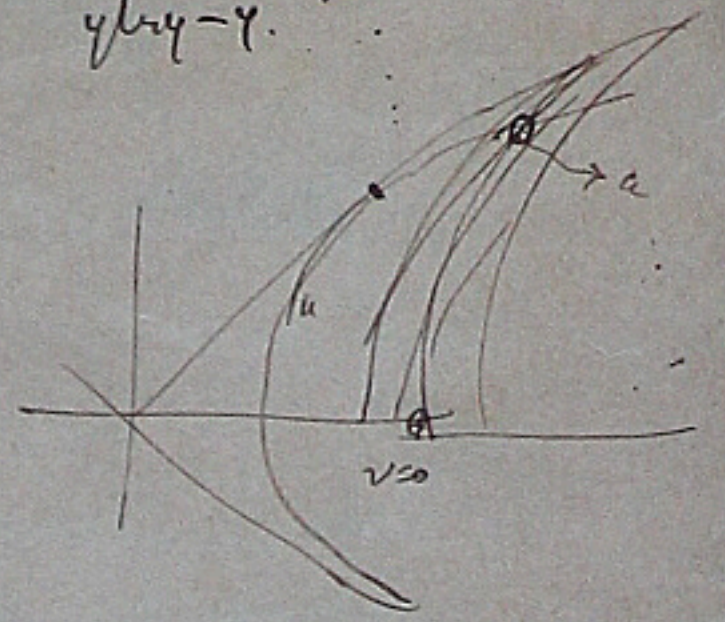






$$I = \int_0^a dy \cdot \log \frac{b}{a} + \int_a^{\sqrt{ab}} dy \cdot \log \frac{ab}{y^2}$$

$y \log y$



$$I = a \log \frac{b}{a} + (\sqrt{ab} - a) \log ab - 2 \int_a^{\sqrt{ab}} \log y \cdot dy$$

$$I = a \log b - a \log a + (\sqrt{ab} - a) \log ab - \frac{2}{2} \sqrt{ab} \log \sqrt{ab} + 2 \sqrt{ab} + (\sqrt{ab} - a) \log b + 2a \log a - 2a$$

$$a \log b - a \log a + 2 \sqrt{ab} - 2a$$

$$I = 2 \sqrt{ab} (\sqrt{b} - \sqrt{a})$$

$$I = \int_a^b du \int_0^a \frac{1}{\sqrt{v}}$$

$$I = \int_a^b \frac{du}{\sqrt{u}} \int_0^a \frac{1}{\sqrt{v}} dv$$

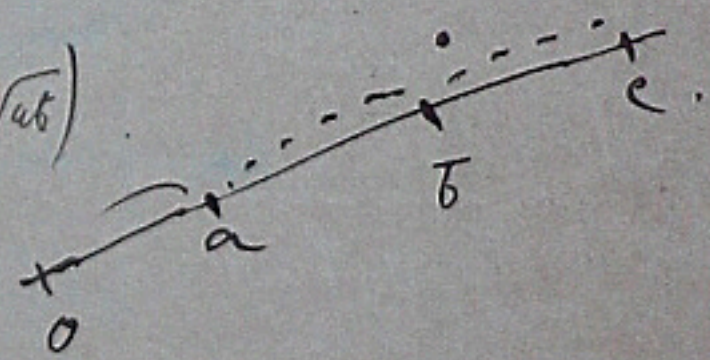
$$I = \int_a^b dv \sqrt{va}$$

$$\iint \frac{dx}{\sqrt{x^2 - y^2}}$$

$$\int_{\frac{y+a}{2a}}^{\frac{y+b}{2a}} \frac{dx}{\sqrt{x^2 - y^2}}$$

$\int_0^a (u, \sqrt{ab})$

$$\int_0^c dy \int_{\frac{y+a}{2a}}^{\frac{y+b}{2a}} \frac{dx}{\sqrt{x^2 - y^2}}$$



$$\int_0^a dy \cdot \log \frac{b}{a} + \int_a^b dy \cdot \log \frac{b}{\frac{y^2}{a}} + \int_b^c dy \cdot \log \frac{\frac{y^2}{b}}{\frac{y^2}{a}}$$

0,24

~~3/40~~

5 6