

Justinut: 
$$\int_{0}^{1} \frac{dx}{y(x)} = \int_{0}^{\pi} \frac{t^{2} \cdot 2t - 1}{(t^{2} - 1)(t^{2} - t + 1)} dt$$

$$= \int_{0}^{\pi_{2}} \left(\frac{2 - t}{t^{2} - t} + \frac{\pi_{12}}{t + 1} + \frac{\pi_{12}}{t + 1}\right) dt$$

Parkalteritization ung

$$= -\frac{1}{2} \log \left(\frac{3}{4}\right) + \sqrt{3} \arctan \left(\frac{1}{13}\right) + \frac{1}{2} \left(\log \left(\frac{3}{2}\right) + \log \left(\frac{1}{2}\right)\right)$$

$$= \int_{0}^{\pi_{12}} \frac{1}{t + 1} dt = \left[\log \left(t + \frac{1}{2}\right) + \frac{1}{2}\right] \left(\log \left(\frac{3}{2}\right) + \log \left(\frac{1}{2}\right)\right)$$

$$= \int_{0}^{\pi_{12}} \frac{1}{t + 1} dt = \left[\log \left(t + \frac{1}{2}\right) + \frac{1}{2}\right] \left(\log \left(\frac{1}{2}\right) + \log \left(\frac{1}{2}\right)\right)$$

$$= \int_{0}^{\pi_{12}} \frac{1}{t + 1} dt = \left[\log \left(t + \frac{1}{2}\right) + \frac{1}{2}\right] \left(\log \left(t + \frac{1}{2}\right) + \frac{1}{2}\right)$$

$$= -\left[\frac{1}{2} \log \left(t + \frac{1}{2}\right) + \frac{1}{2}\right] \left(\frac{1}{3} \operatorname{corden} \left(\frac{1}{13}\right) + \frac{1}{2}\right)$$

Simple in Shript

$$= -\frac{1}{2} \log \left(\frac{3}{4}\right) + \sqrt{3} \operatorname{arcton} \left(\frac{1}{3}\right)$$

Endergolinis: 
$$\int_{0}^{\pi} \frac{dx}{y(x)} = \sqrt{3} \operatorname{corden} \left(\frac{1}{\sqrt{3}}\right) = \frac{\pi}{2} \sqrt{3} \approx 0,9069$$