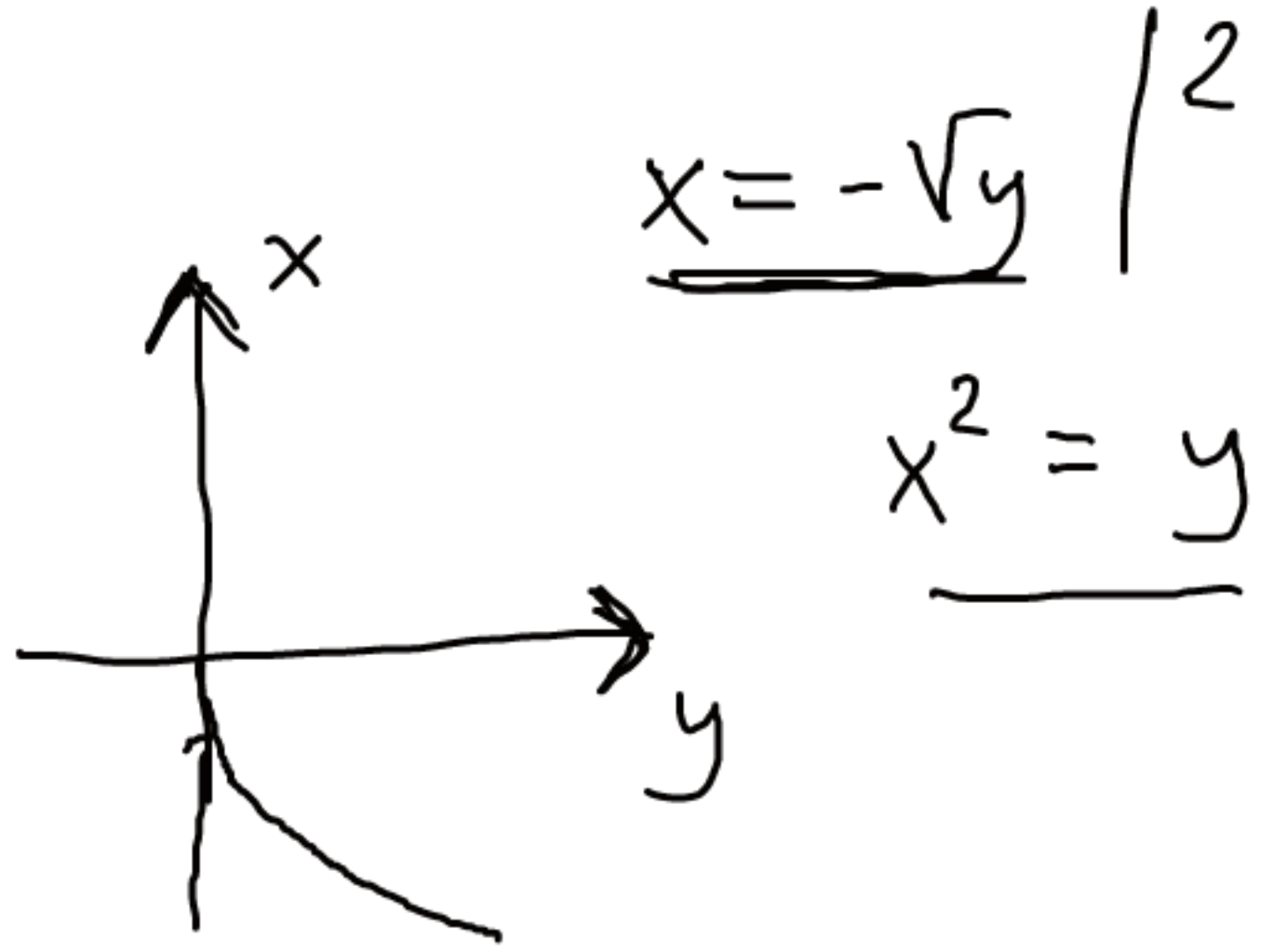
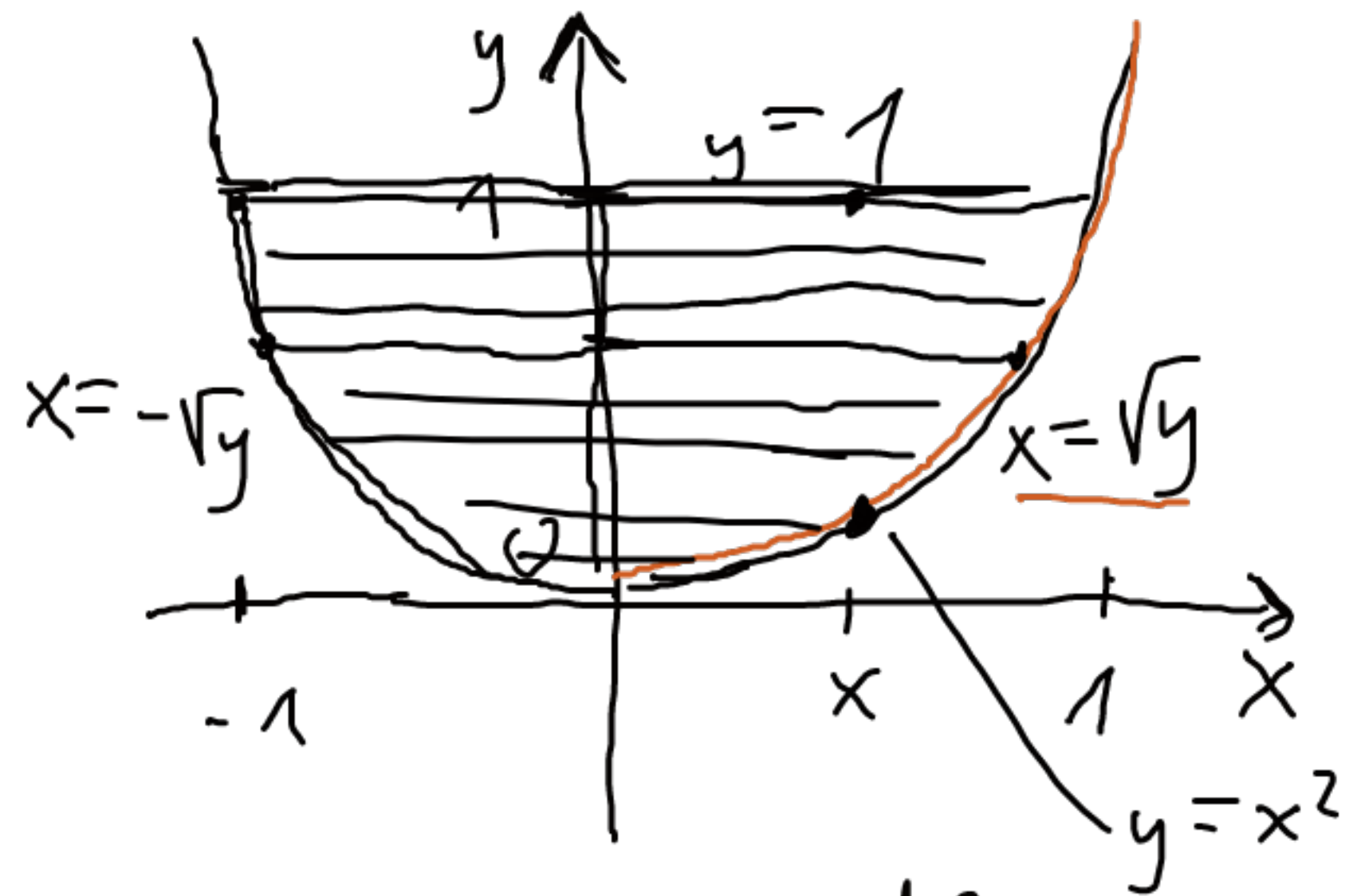


$$\begin{aligned}
 I &= \int_0^1 dy \int_{-\sqrt{y}}^{\sqrt{y}} xy \, dx = \\
 &= \int_0^1 dy \left(y \frac{x^2}{2} \Big|_{x=-\sqrt{y}}^{x=\sqrt{y}} \right) = \\
 &= \int_0^1 y \cdot \left(\frac{y}{2} - \underbrace{\frac{(-\sqrt{y})^2}{2}}_{=y/2} \right) dy = \int_0^1 0 \, dy = 0
 \end{aligned}$$



Zmiana kolejności całkowania

$$I = \int_{-1}^1 dx \int_{x^2}^1 xy \, dy = \int_{-1}^1 \left(\int_{x^2}^1 xy \, dy \right) dx$$