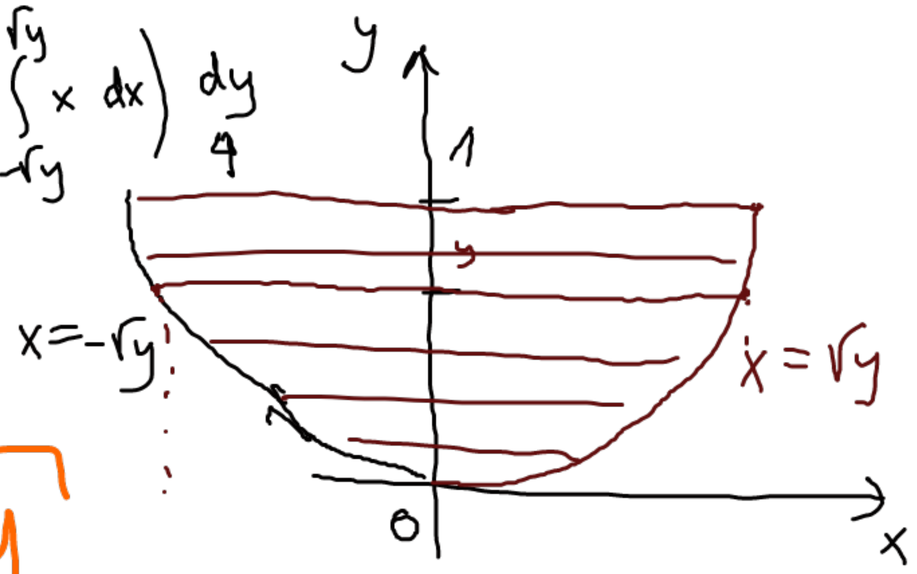
$$\int_0^1 dy \int_{-\sqrt{y}}^{\sqrt{y}} xy\, dx = \int_0^1 dy\; y \int_{-\sqrt{y}}^{\sqrt{y}} x\, dx = \int_0^1 \left(y \int_{-\sqrt{y}}^{\sqrt{y}} x\, dx \right) dy$$



$$\int_{-\sqrt{y}}^{\sqrt{y}} x\, dx = \left[\frac{x^2}{2} \right]_{-\sqrt{y}}^{\sqrt{y}} = \frac{(\sqrt{y})^2}{2} - \frac{(-\sqrt{y})^2}{2} = \frac{y}{2} - \frac{y}{2} = 0$$

dla $y \in [0,1]$

$-\sqrt{y} \le x \le \sqrt{y}$

$\rightarrow$ $x = -\sqrt{y}$ $\quad x = \sqrt{y}$

$x^2 = y \quad x^2 = y$

$$\int_0^1 0\, dy = [c]_0^1 = c - c = 0$$