

$$\int_{dx dy}^G y^4 \exp(-y^2/x^2) : G = \frac{x:y \in \mathbb{R}_{>}^2}{xy < 1} : \text{subst } u = xy: \quad v = y^2/x^2$$

Area A zw Graph und x-Achse

$$\text{Nullstellen } 0 = \begin{cases} a\eta \\ b\eta \end{cases} : \pm A = \int_{dx}^{a|b} x\eta$$

Area A zw Graphen

$$\text{Schnittstellen } \begin{cases} a\eta = a\eta \\ b\eta = b\eta \end{cases} : \pm A = \int_{dx}^{a|b} \underbrace{x\eta - x\eta}$$

Volumen V Rotationskörper zw Graphen

$$\text{Schnittstellen } \begin{cases} a\eta = a\eta \\ b\eta = b\eta \end{cases} : \pm V = \pi \int_{dx}^{a|b} \underbrace{x\eta^2 - x\eta^2}$$

$${}^x\eta = x^3 + x^2/3: \quad {}^x\eta = x^3 + x/3 + 4$$