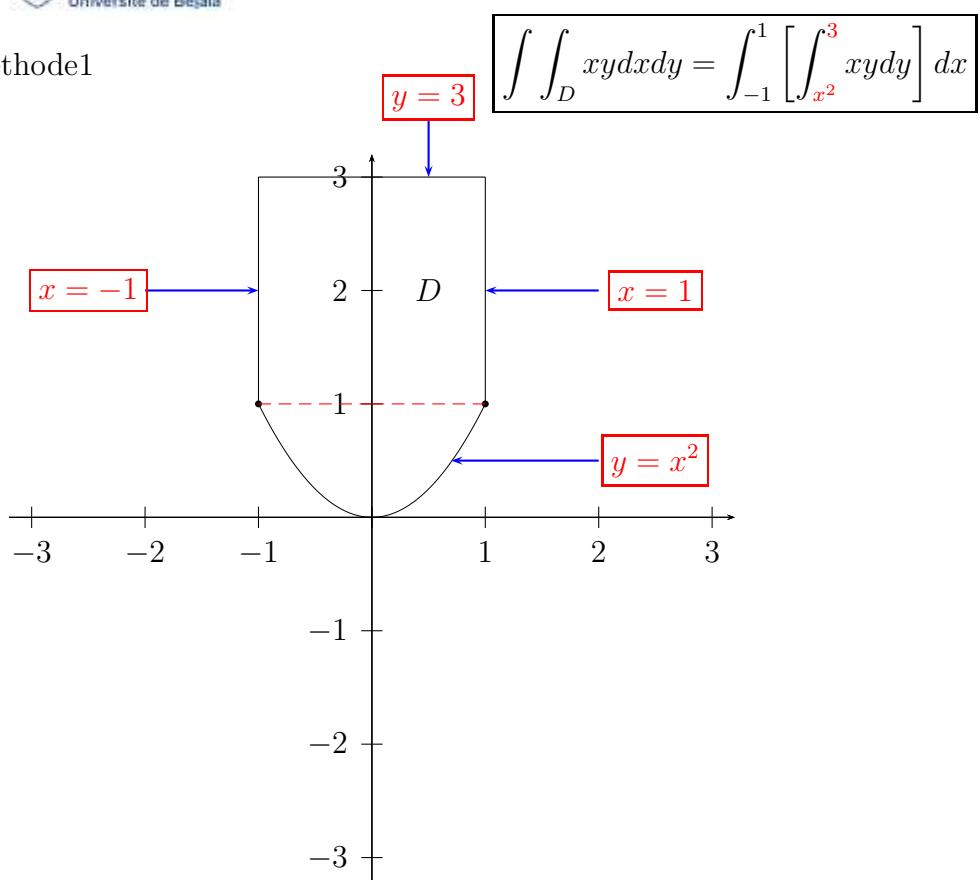
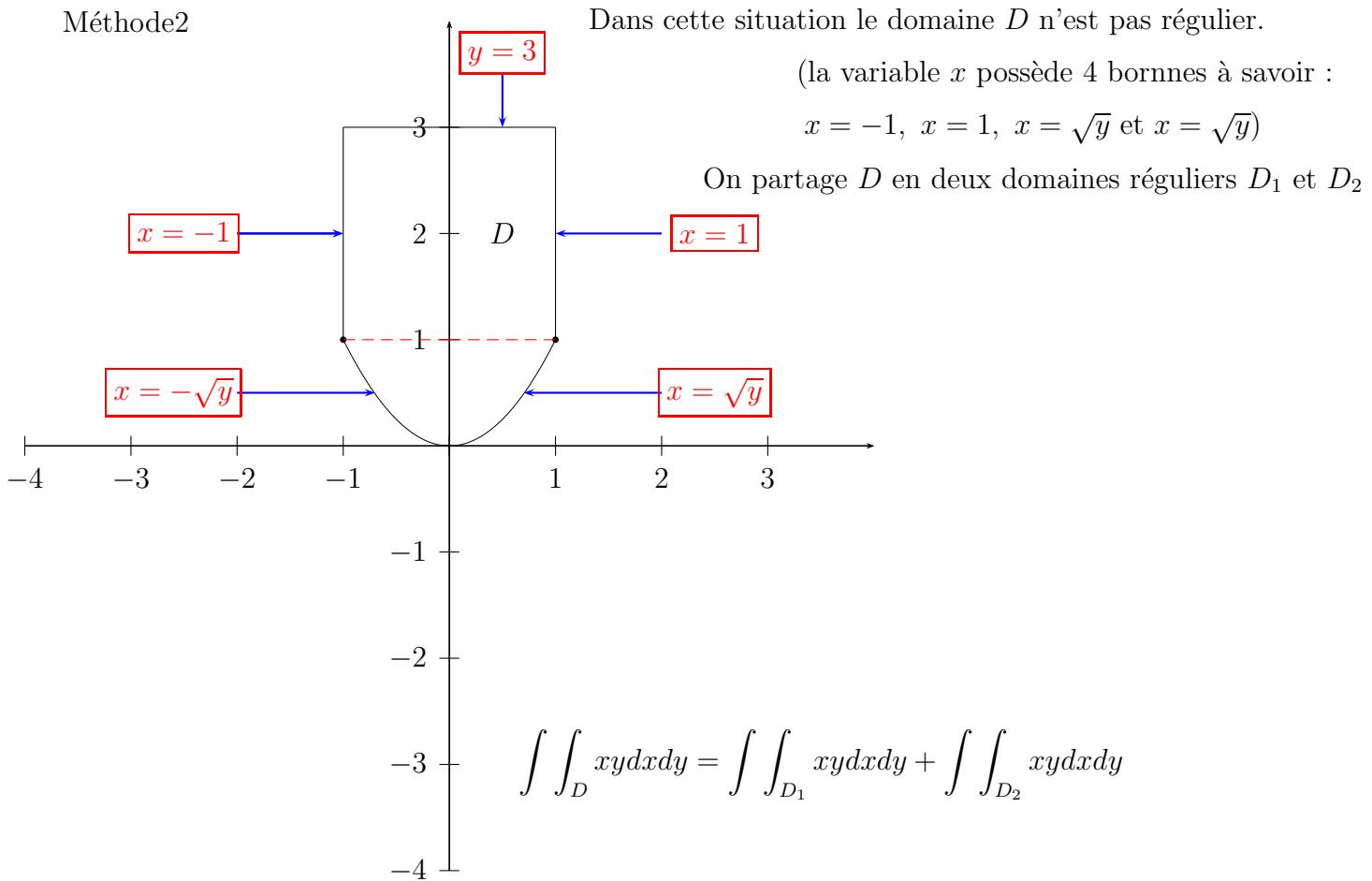


Exercice2 (Schémas)

Méthode1

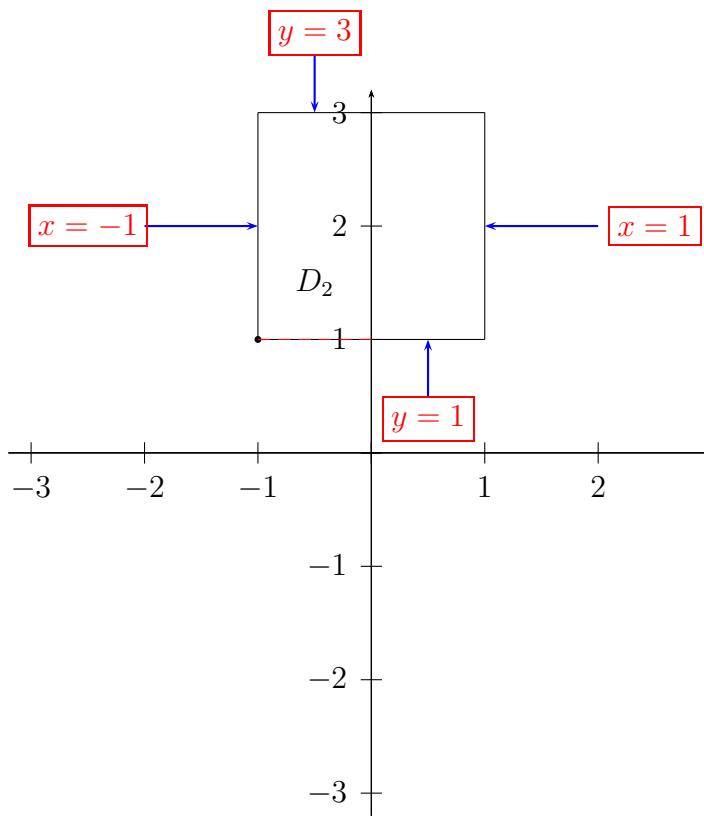
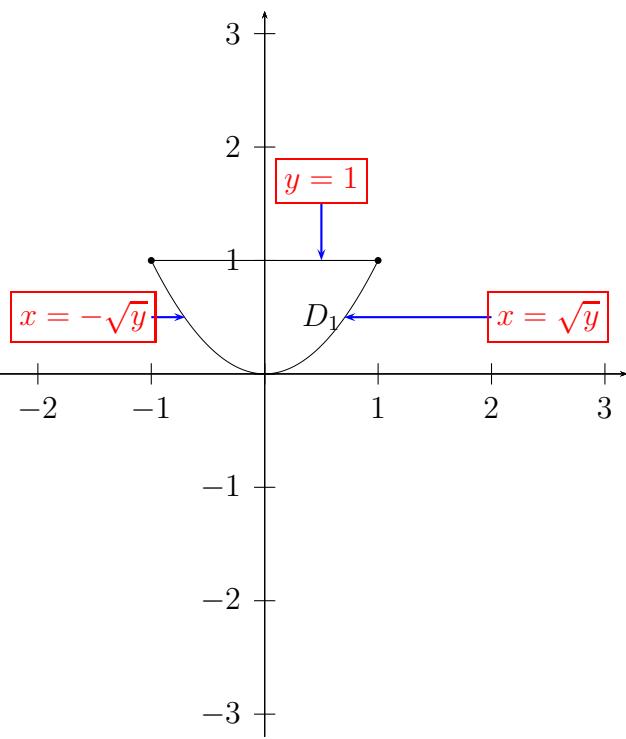


Méthode2

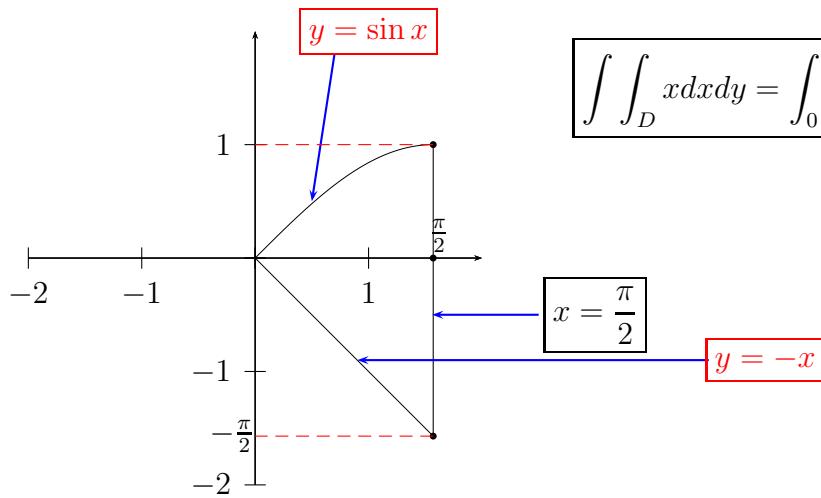


$$\int \int_{D_1} xy dxdy = \int_0^1 \left[\int_{-\sqrt{y}}^{\sqrt{y}} xy dx \right] dy$$

$$\int \int_{D_2} xy dxdy = \int_1^3 \left[\int_{-1}^1 xy dx \right] dy$$



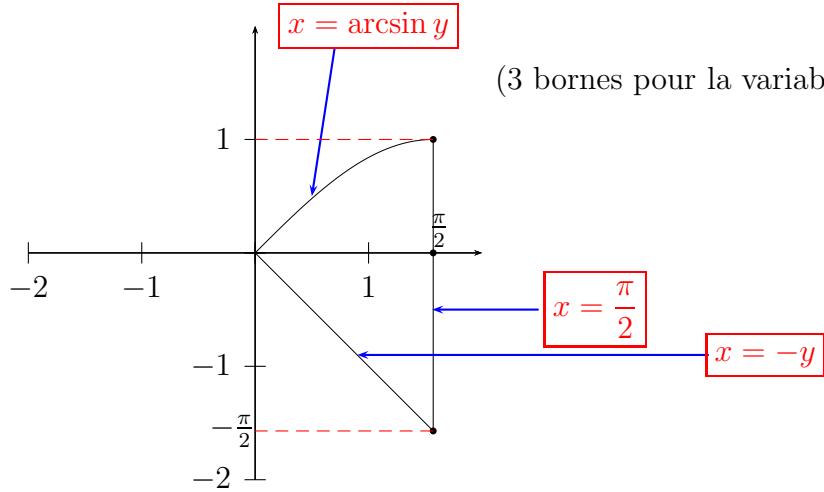
Méthode 1



$$\int \int_D x dxdy = \int_0^{\frac{\pi}{2}} \left[\int_{-x}^{\sin x} x dy \right] dx$$

Méthode 2

Concernant la méthode 2, le domaine D n'est pas régulier.



Par conséquent, on partage le domaine D en deux domaines réguliers D_1 et D_2 .

$$\int \int_D x dx dy = \int \int_{D_1} x dx dy + \int \int_{D_2} x dx dy$$

