XVa $x^2 + y = 2$ $y^3 = x^2$

$f(x,y)$

$$\int_{-1}^{1} dx \int_{\sqrt[3]{x^2}}^{2-x^2} f(x,y)\,dy =$$

$$= \int_{0}^{1} dy \int_{-\sqrt{y^3}}^{\sqrt{y^3}} f(x,y)\,dx + \int_{1}^{2} dy \int_{-\sqrt{2-y}}^{\sqrt{2+y}} f(x,y)\,dx$$