

XVd

$$x^2 - y^2 = 1, x^2 + y^2 = 3, x \geq 0$$

hiperbola

$$y^2 = x^2 - 1$$

$$y = \pm \sqrt{x^2 - 1}, |x| \geq 1$$

$$y^2 = 3 - x^2$$

$$y = \pm \sqrt{3 - x^2}$$

~~$x^2 - y^2 = 1$~~

$$\begin{cases} x^2 - y^2 = 1 \\ x^2 + y^2 = 3 \end{cases} \quad +$$

$$2x^2 = 4$$

$$x^2 = 2$$

$$x = \pm \sqrt{2}$$

$$y^2 = 3 - x^2 = 1$$

$$y = \pm 1$$

$$\int_{-1}^1 dy$$

$$\sqrt{3 - y^2}$$

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

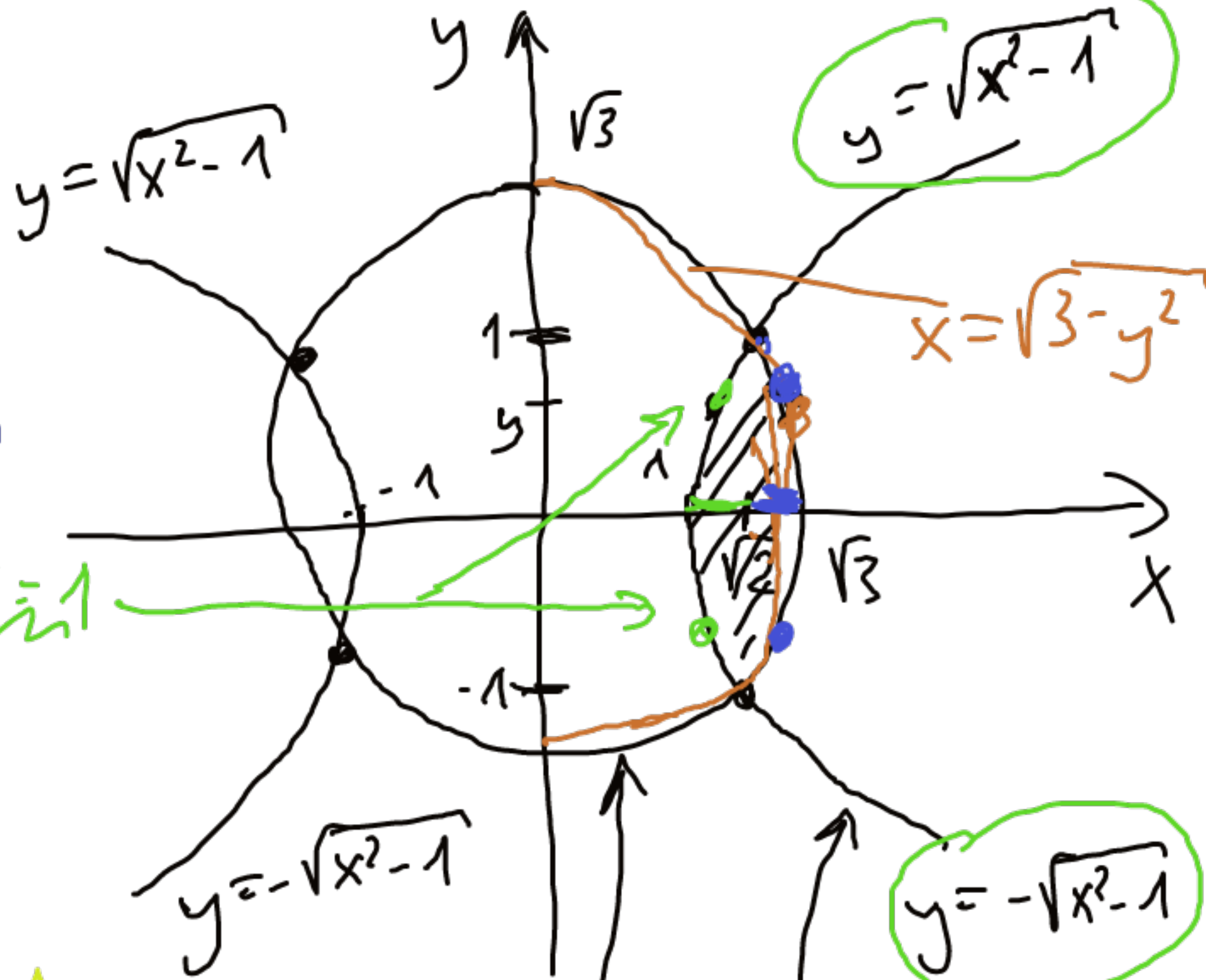
$$\int_1^{\sqrt{2}} dx$$

$$\sqrt{x^2 - 1}$$

$$\int_{-\sqrt{x^2-1}}^{\sqrt{x^2-1}} f(x,y) dy$$

$$\int_{\sqrt{2}}^{\sqrt{3}} dx$$

$$\int_{-\sqrt{3-x^2}}^{\sqrt{3-x^2}} f(x,y) dy$$



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

$$x^2 = 3 - y^2$$

$$x = \pm \sqrt{3 - y^2}$$

$$x^2 - y^2 = 1$$

$$x^2 = 1 + y^2$$

$$x = \pm \sqrt{1 + y^2}$$

$$y = \sqrt{x^2 - 1}$$

$$y = -\sqrt{x^2 - 1}$$