

$$z = \sqrt{9 - x^2 - y^2} = \sqrt{9 - (x^2 + y^2)} \quad \leftarrow$$

$$z = -3 + \sqrt{x^2 + y^2} \quad \leftarrow$$

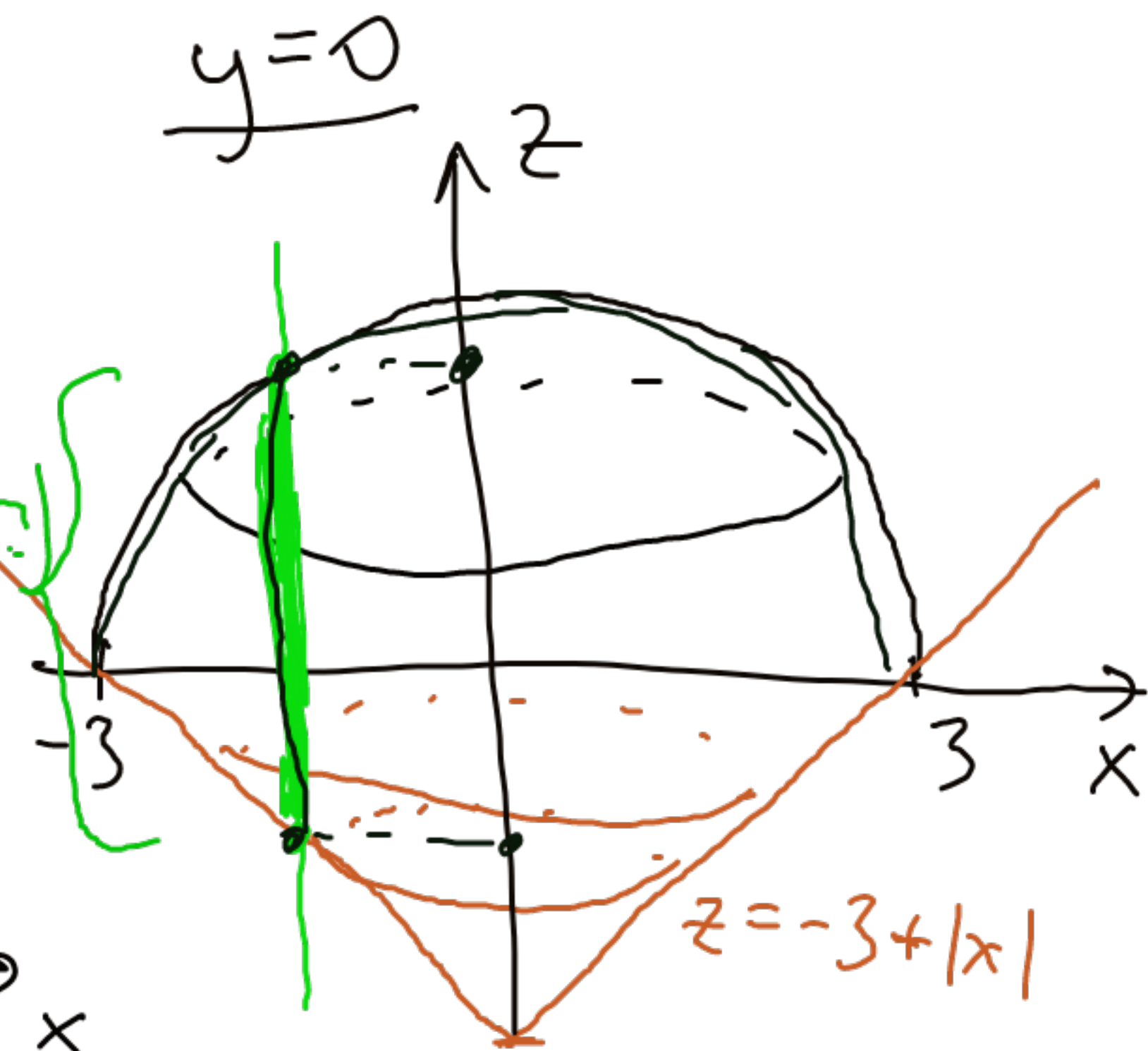
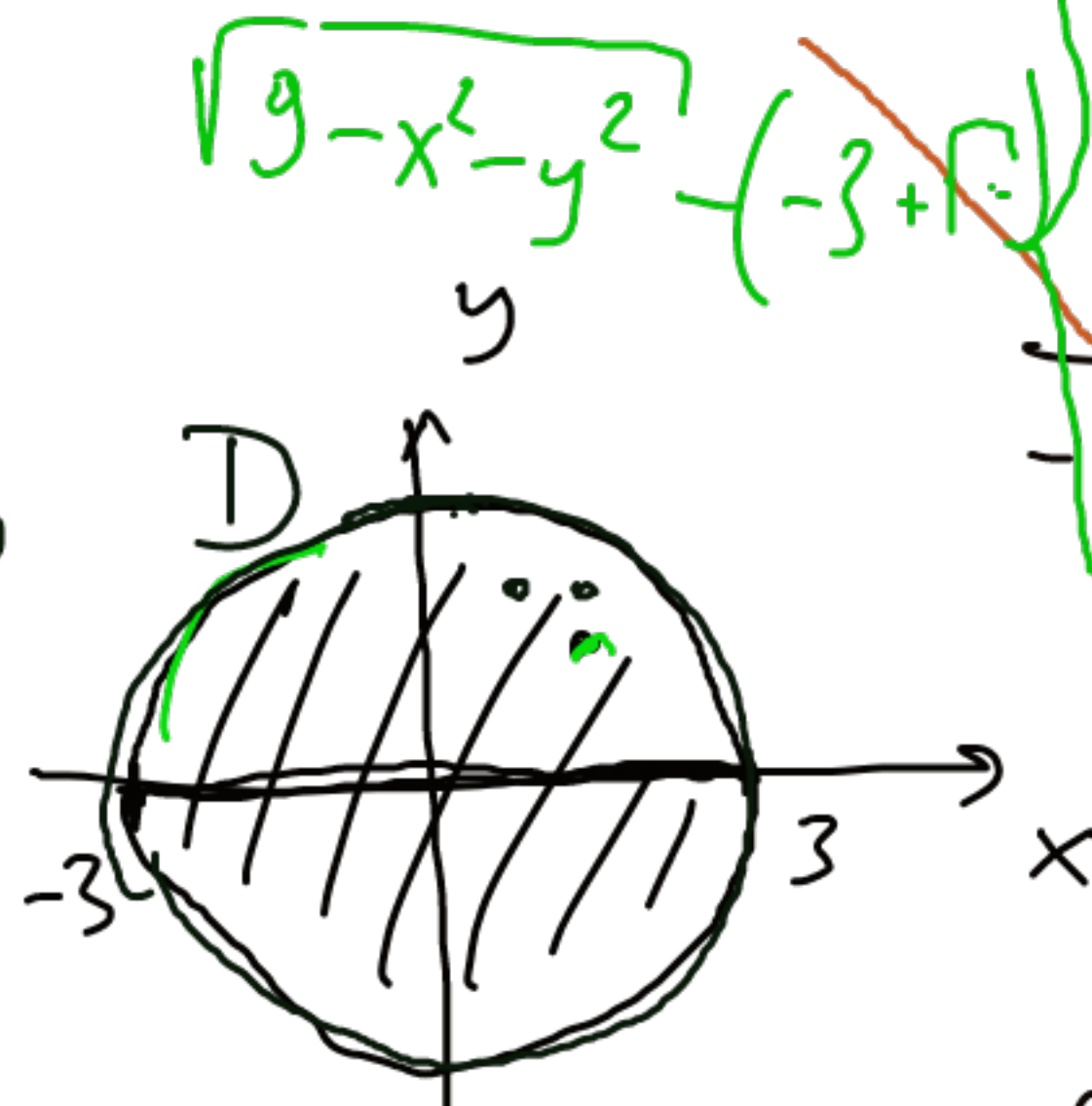
$$Obf_i = \iint_D \left[\sqrt{9 - x^2 - y^2} - \underbrace{(-3 + \sqrt{x^2 + y^2})}_r \right] dx dy$$

$$= \int_0^{2\pi} d\varphi \int_0^3 \left(\sqrt{9 - r^2} + 3 - r \right) r dr = \dots$$

\uparrow ($t = 9 - r^2$)



$$P = \int_a^b (g(x) \cdot f(x)) dx$$



$$\left. \begin{aligned} & z = \sqrt{9 - x^2}, \quad x \in [-3, 3] \\ & z = -3 + \sqrt{x^2} = -3 + |x| \end{aligned} \right\} \rightarrow \begin{cases} z^2 = 9 - x^2 \\ x^2 + z^2 = 9 = 3^2 \end{cases}$$