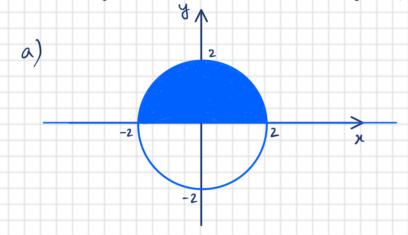
Projecte de revolução do TGI (Amália Lee > 2023 - 24)

1 Considere o conj to A definido por



c)
$$\widehat{A} = A$$

d)
$$f(A) = \{(y,y) \in \mathbb{R}^2: x^2 + y^2 = 4 \text{ on } y = 0\}$$

$$\begin{cases}
2 & f: D \subseteq \mathbb{R}^2 \longrightarrow \mathbb{R} \\
(n,y) & f = \sqrt{\frac{n}{2} - y^2}
\end{cases}$$

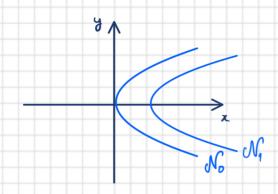
a)
$$\mathbb{D} = \left\{ (\mathbf{n}, \mathbf{y}) \in \mathbb{R}^2 : \frac{\mathbf{x}}{2} - \mathbf{y}^2 > 0 \right\}$$

b)
$$N_0 = \{ (n,y) \in D : \sqrt{\frac{\chi}{2}} - y^2 = 0 \}$$

$$\sqrt{\frac{\chi}{2}} - y^2 = 0 \iff \frac{\chi}{2} - y^2 = 0 \iff \chi = 2y^2$$
e' uma jarábola

c)
$$\mathcal{N}_1 = \left\{ (x, y) \in \mathbb{R}^2 : \sqrt{\frac{x}{2}} - y^2 = 1 \right\}$$

 $\sqrt{\frac{x}{2}} - y^2 = 1 \ (=) \ \frac{x}{2} - y^2 = 1 \ (=) \ x = 2y^2 + 2$



d)
$$Gn(J) = \{(x,y,t) \in \mathbb{R}^3 : x \ge 2y^2 \ \ z = \sqrt{\frac{x}{2} - y^2} \}$$

$$z = \sqrt{\frac{\chi}{2} - y^2} \implies z^2 = \frac{\chi}{2} - y^2 (=) \chi = zz^2 + zy^2$$

esnação de um paraboloide elíptico.