- parametarski $t \in [a, b]$
- implicitno (nerešen oblik)
- eksplicitno (jasno)

prava: $ax + by + c = 0$, $a, b, c \in \mathbb{R}$ implicitno

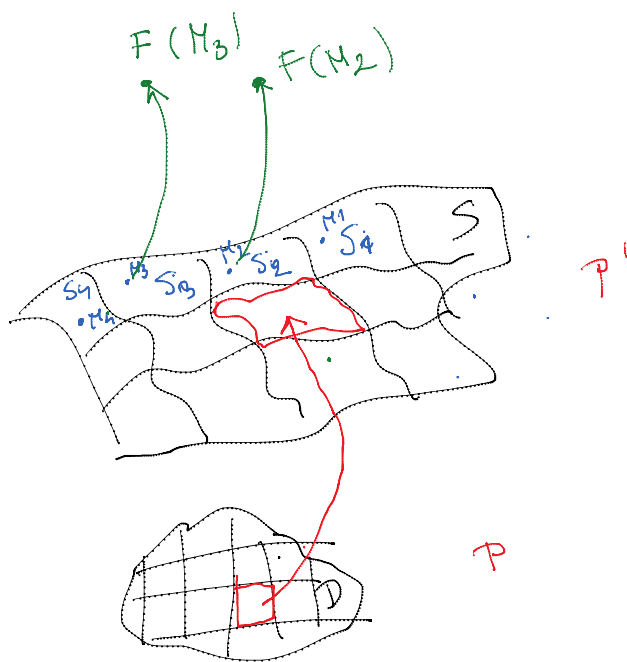$$y = -\frac{a}{b}x - \frac{c}{b}$$, $b \neq 0$ eksplicitni

kružnica: $x^2 + y^2 = 1$

$x^2 + y^2 - 1 = 0$ implicitni

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

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

$x = \cos t$
$y = \sin t$ parametarski
     t - ugao x-ose i vektora (x, y)

površ: $x^2 y + 2x^2 yz + \sin z - 1 = 0$ implicitni

$z = f(x, y)$ eksplicitni
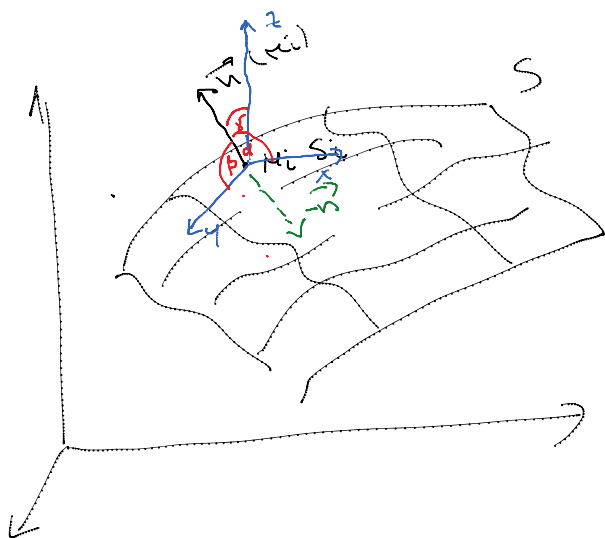
$$S \text{ zadata eksplicitno } z = z(x, y)$$

$$S = \{(x, y, z) \mid z = z(x, y) , (x, y) \in D \subseteq \mathbb{R}^2\}$$

$$\iint\limits_{S} F(x, y, z)\, dS = \iint\limits_{D} F(x, y, z(x, y)) \cdot \sqrt{1 + p^2 + q^2}\, dx\, dy$$

$$p = \frac{\partial z}{\partial x}, \quad q = \frac{\partial z}{\partial y}$$

D – projekcija S na xy ravan

Mebiusova traka (jednostrana)

Površinski II vrste

$$\iint_S \left(P(x,y,z)\cos\alpha + Q(x,y,z)\cos\beta + R(x,y,z)\cos\gamma \right) dS$$

Upotrebljava se i oznaka:

$$\iint_S P(x,y,z)\,dy\,dz + Q(x,y,z)\,dz\,dx + R(x,y,z)\,dx\,dy$$

Ako je S određena sa $\boxed{z = z(x,y)}$ onda

$$\cos\alpha = \pm \frac{p}{\sqrt{1+p^2+q^2}}$$

$$\cos\beta = \pm \frac{q}{\sqrt{1+p^2+q^2}}$$

$$\cos\gamma = \pm \frac{-1}{\sqrt{1+p^2+q^2}}$$

$$p = \frac{\partial z}{\partial x}$$

$$q = \frac{\partial z}{\partial y}$$

(kao i ranije)

znak + ili − u zavisnosti da li je ugao oštar ili tup

$$\iint_S R(x,y,z)\cos\gamma\,dS = \iint_D R(x,y,z(x,y))\,dx\,dy \quad \text{(projekcija na xy ravan)}$$

$$\iint_S P(x,y,z)\cos\alpha\,dS = \iint_D P(x,y,z(x,y))\,dy\,dz \quad \text{(projekcija na yz ravan)}$$

$$\iint_S Q(x,y,z)\cos\beta\,dS = \iint_D Q(x,y,z(x,y))\,dz\,dx \quad \text{(projekcija na zx ravan)}$$