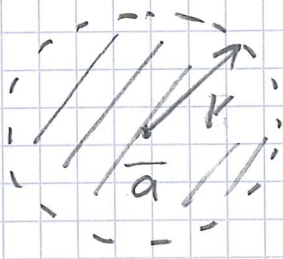
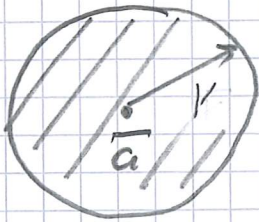


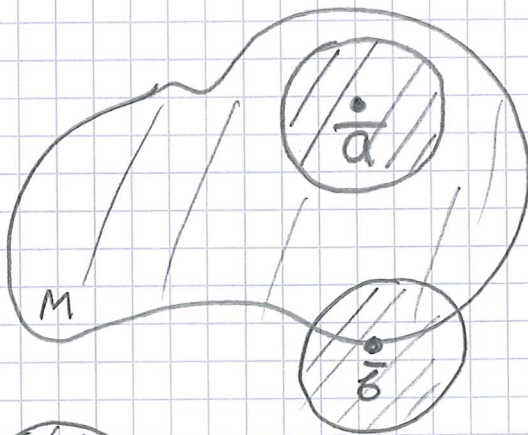
ε_n cirkel med radie $r > 0$
 centrum i \bar{a}



ε_n öppen cirkelskiva
 med radie $r > 0$
 centrum i \bar{a}



ε_n sluten cirkelskiva
 med radie $r > 0$
 centrum i \bar{a}

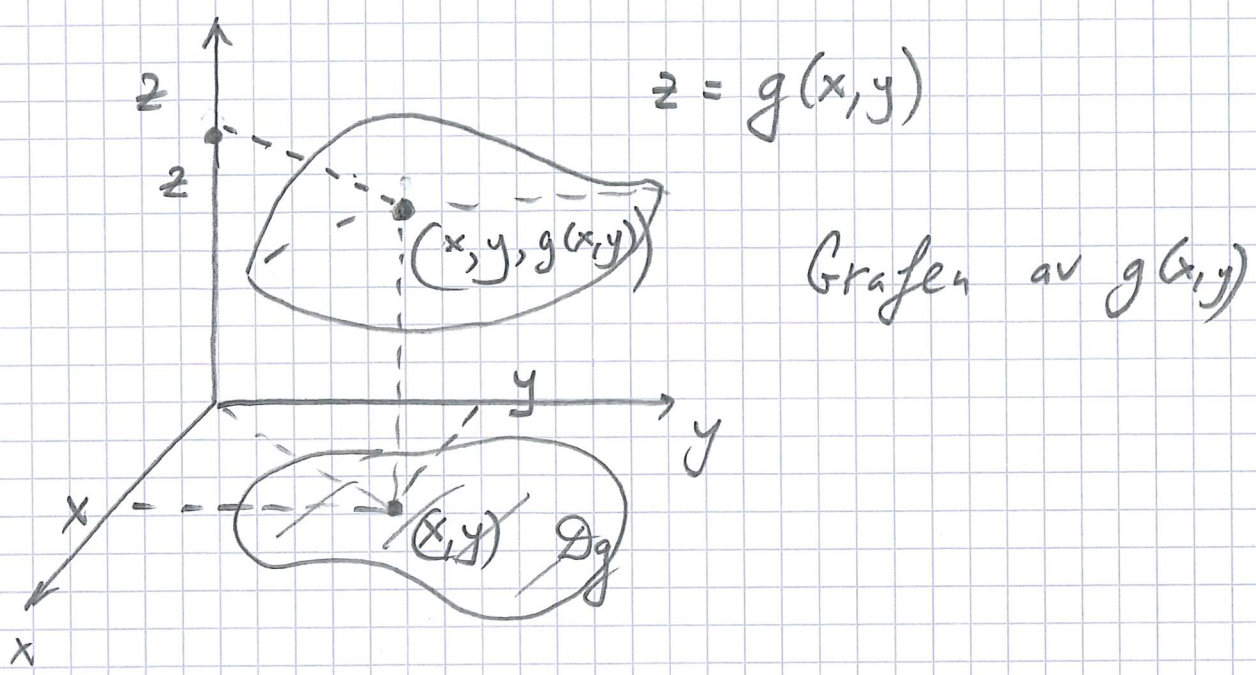


ε_n inre punkt till M .

ε_n randpunkt till M .



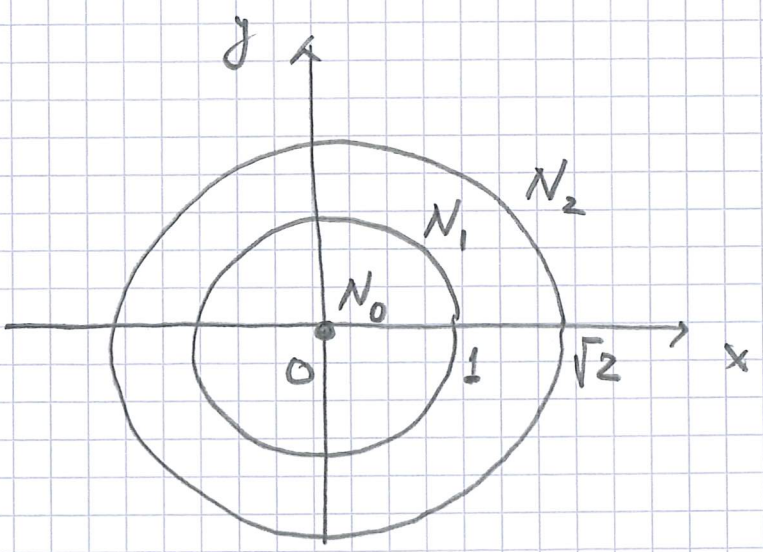
varken en inre punkt till M
 eller en randpunkt till M



Låt $g(x, y) = x^2 + y^2$

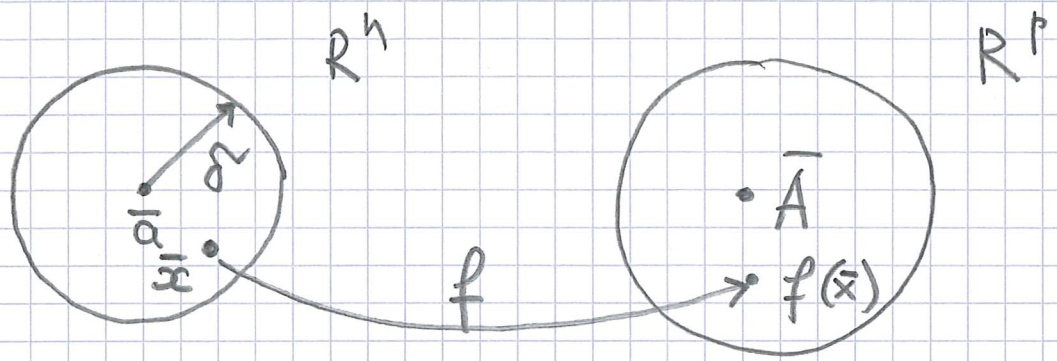
Rita nivåkurvor för g .

$x^2 + y^2 = c, \quad S \subseteq H \quad c = 0, 1, 2$

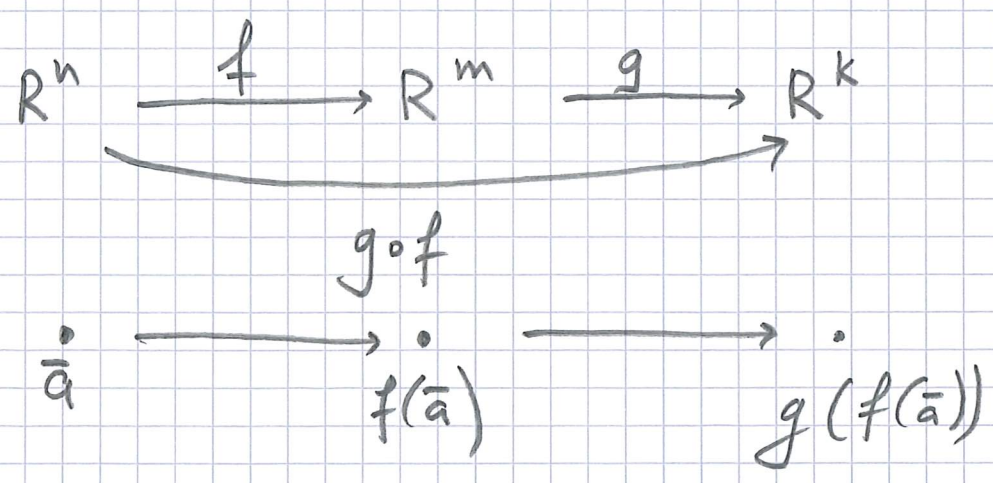


$$\lim_{\bar{x} \rightarrow \bar{a}} f(\bar{x}) = \bar{A} \quad (f: \mathbb{R}^n \rightarrow \mathbb{R}^p) :$$

$$\forall \varepsilon > 0 \quad \exists \delta > 0 \quad \text{s.t.}$$



Sammanställning av funktioner



Ex. $f(x) = (x, 0)$, $f: \mathbb{R} \rightarrow \mathbb{R}^2$
 $g(u, v) = \frac{u^2 \cdot v}{u^3 + v^3}$, $g: \mathbb{R}^2 \rightarrow \mathbb{R}$] \rightarrow
 $g \circ f(x) = g(f(x)) = \frac{x^2 \cdot 0}{x^3 + 0^3} = 0$