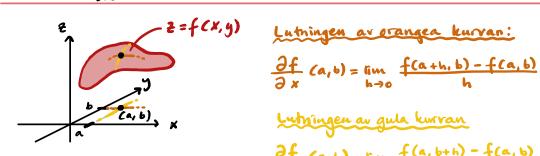
- PARTIELLA DERIVATOR

Linnéa Gustafsson linneag 2@kth se

LARS FILIPSSON



$$\frac{\partial f}{\partial x}(a,b) = \lim_{h \to 0} \frac{f(a+h,b) - f(a,b)}{h}$$

Lutningen av gula kurran

$$\frac{\partial f}{\partial y}(a,b) = \lim_{k \to 0} \frac{f(a,b+h) - f(a,b)}{k}$$

$$\begin{cases} f(x,y) = x^2 + y^2 \\ \frac{\partial f}{\partial x}(z,1) = 4, & \frac{\partial f}{\partial y}(z,1) = 2 \\ x^2 \rightarrow 2x & x^2 = c \rightarrow 0 \\ y^2 = c \rightarrow 0 & y^2 = 2y \end{cases}$$

c, konstant

Ekvationen för tangeutplanet TP: = 5 + 4(x-2) + 2(y-1) $f(2,1) \frac{\partial f}{\partial x}(2,1) \frac{\partial f}{\partial y}(2,1)$