

Københavns Universitet
PoP Assignment 2

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1.1.1 question 1.1

$$\left(82x + 2y^2\frac{1}{2}\right)$$

$$\left(82x + 2y^2\frac{1}{x}\right)$$

$$\left(2x + 2y^2 \frac{\frac{4}{0}}{a_1}\right)$$

$$\lim_{n \rightarrow \infty} \left(\frac{1}{n} \right)$$

$$\lim_{n \rightarrow \infty} \left\{ \frac{1}{n} \right\}$$

$$\text{math is cool} = \text{true}$$

$$e^{x \cdot 0} \bullet \nabla f \circ g$$

$$\frac{1 + 10000000000000000000000000000}{20 + 1}$$

$$\begin{aligned}\frac{\partial u}{\partial x} &= y \cos(xy + 1) = -1 \cos(1 \cdot (-1) + 1) = -1 \cos(0) = -1 \\ \frac{\partial v}{\partial x} &= 2x = 2 \cdot 1 = 2\end{aligned}$$

2 I den sidste afleveringsopgave betragtede vi funktionen $f : \mathbb{R}^2 \rightarrow \mathbb{R}$ givet ved

$$f(x, y) = \begin{cases} \frac{x^2 y}{x^4 + y^2}, & (x, y) \neq (0, 0) \\ 0, & (x, y) = (0, 0) \end{cases}$$

hassan

```
1  if (1==2) then kys
```



Figure 1: Maple plot af funktionen fra opgave 4: $f(x, y) = \begin{cases} \frac{x^2 y}{x^4 + y^2}, & (x, y) \neq (0, 0) \\ (0, 0), & (x, y) = (0, 0) \end{cases}$



Figure 2: Maple kode til at finde de partielt afledte af $f(x, y)$ ved $(x, y) = (5, 5)$