Ex3

$$2x \exp(x \sin(x))$$
 a ladact en 0

 $\sin(x) = x - \frac{x^3}{8}$
 $\exp(x \sin(x))$
 $\exp(x \sin(x))$
 $\exp(x \sin(x))$
 $\exp(x \sin(x))$
 $\exp(x \sin(x))$
 $\exp(x \sin(x))$
 $\exp(x \cos(x))$
 $\exp(x \cos(x))$

$$\frac{x^{4}}{24} + o(x^{4})$$

$$= 1 \cdot x - \frac{x^{3}}{8} + \frac{x^{2}}{2} - \frac{x^{4}}{6} + \frac{x^{2}}{6}$$

$$= 1 \cdot x - \frac{x^{3}}{8} + \frac{x^{2}}{2} - \frac{x^{4}}{6} + \frac{x^{2}}{6}$$

$$= 1 + x + \frac{x^{2}}{2} - \frac{x^{4}}{6} + o(x^{4})$$

$$= 1 + x + \frac{x^{2}}{2} - \frac{x^{4}}{24} + o(x^{4})$$

$$= 1 + x + \frac{x^{2}}{2} - \frac{x^{4}}{24} + o(x^{4})$$

$$= x \cdot x \cdot (x \cdot x)$$

$$\frac{\partial}{\partial x} = \frac{2\pi}{2} + \frac{2\pi}{2}$$