Numeric - Blot 10

And - For normalistente Zelle [1, 30720] ist Sn C 0,07

- Fir Zahler > 30.720 wind Su "bel."

 Groß
- Fir d. denovadisjerter Zulent 0,1]

 Wind Die Selv groß

 Es Lendell Siel Blusage um Festkomezaller -3 bei 0 ist Ju wax.

Money (C - Bloth 10 - Kondown

$$f(x,y) = \sin(x) \cdot y^{2} - x^{2} \cdot y$$

a) $\int_{X} f(x,y) = \cos(x) \cdot y^{2} - 2xy$
 $\int_{Y} f(x,y) = 2\sin(x) \cdot y - x^{2}$

$$= \sum_{i=1}^{n} \int_{X} f(x,y) = 2\sin(x) \cdot y - x^{2}$$

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 $D_{VA}(f(p_{A}) = f'(p_{A}) \cdot V_{A} = J_{X}f(p_{A}) \cdot A + J_{Y}f(p_{A}) \cdot O$ $= -4(A + \pi) + O = -4(A + \pi)$ $D_{VZ}f(p_{A}) = J_{X}f(p_{A}) \cdot O + J_{Y}f(p_{A}) \cdot A = -\pi^{2}$ $D_{VZ}f(p_{A}) = J_{X}f(p_{A}) \cdot A + J_{Y}f(p_{A}) \cdot A$ $= -4(A + \pi) - \pi^{2}$

Res-

$$P_{2} = \{0,1\}$$

$$D_{1} = \{0,1\}$$

$$D_{2} = \{0,1\}$$

$$D_{3} = \{0,1\}$$

$$D_{4} = \{0,1\}$$

$$D_{5} = \{0,1$$

Backer Difference va h
$$(v) = exp(-\frac{1}{2} \cdot \frac{r}{6^2})$$

 $h^i(v) = exp(-\frac{1}{2} \cdot \frac{r}{6^2}) \cdot \left(-\frac{1}{26^2}\right)$

C) Beredie Good
$$f = good (hog)$$

grad $f(p) = grad (g(p)) \cdot h'(g(p))$

$$= -\frac{P-M}{6^2} exp(-\frac{1}{2} \frac{|(p-M)|^2}{6})$$

$$= -\frac{f(p)}{6^2} (p-M)$$

A4 Geguch: FA. h: H > D3 \ E03 s.d.

V PE H: n(P) IH

$$f: \mathbb{R}^{3} \rightarrow \mathbb{R}$$

$$f: \mathbb{R}$$

M(p)=0 c=1 p=0=> $n(p) \neq 0 + p \in H$ $M(p) \neq (8.4 => n(p) \pm f^{-1}(8.13))=14$