国社主大学

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习题 FIS HW $\lim_{x \to \infty} \frac{1}{2x} = \lim_{x \to \infty} \frac{1}{2x} + \frac{1}{2x} = \frac{1}{2x} = \frac{1}{2x} + \frac{1}{2x} = \frac{1}{2x} = \frac{1}{2x} + \frac{1}{2x} = \frac{1}{2x} =$ 12, 38 = tiy+tifi & 22.02 = tix +- if ti $\frac{\partial u}{\partial S} = \frac{\partial u}{\partial x} \frac{\partial x}{\partial S} + \frac{\partial u}{\partial y} \frac{\partial y}{\partial S} = e^{S} \omega t \cdot \frac{\partial u}{\partial x} + e^{S} \sin t \cdot \frac{\partial u}{\partial y}$ $\frac{\partial^2 u}{\partial s^2} = \omega st. \, e^s. \, \frac{\partial u}{\partial x} + (e^s. \omega t)^2. \, \frac{\partial^2 u}{\partial x^2} + e^s. \, sint. \, \frac{\partial u}{\partial y} + (e^s. sint)^2. \, \frac{\partial^2 u}{\partial y^2}$ \frac{\partial u}{\partial t} = \frac{\partial u}{\partial x} \frac{\partial u}{\partial x} \frac{\partial u}{\partial x} + e^{s} \text{sint.} \frac{\partial u}{\partial x} + e^{s} \text{wit.} \frac{\partial u}{\partial y} $\frac{\partial^2 u}{\partial t^2} = -e^5 \omega_3 t \cdot \frac{\partial u}{\partial x} + (-e^5 \sin t)^2 \frac{\partial^2 u}{\partial x^2} + (e^5 \omega_3 t)^2 \cdot \frac{\partial^2 u}{\partial y^2}$ $\frac{\partial^2 u}{\partial s^3} + \frac{\partial^2 u}{\partial t^2} = e^{2s} \left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} \right) = 0$ 8. fitx, ty, tz)=t"f(x,y,z) 看成关于t的函数. 对t求导 tfi xfi + y.fi+z.fi = n.t"fix.y.z) = n. f. fitx. ty. tz) =) (tx).f. + ity).f. + (ta)fi = nfitx. ty. ta) 1/2 xi=tx. yi=ty. zi=t2 =) xifx.(2: yiz) +y' x.fx.(2., y., 2.)+y, ty,(x1., y1., 21)+ Z. f. x . . y . zy = n f x . y , z .) 那以太(x,y,z) + yfy(x,y,z)+ zfz(x,y,z)= nf(x,y,z)



理版 b. b. HW
1. grad $f \mid_{\Omega+5, H_2(\overline{0})} = (2x-y)\mid_{\Omega+5, H_2(\overline{0})} + (2y-x)\mid_{\Omega+5, H_2(\overline{0})} + (2x-y)\mid_{\Omega+5, H_2(\overline{0})} + (2y-x)\mid_{\Omega+5, H_2(\overline{0})} + ($



引題 6.7

$$\frac{\partial \mathcal{D}}{\partial y} = \frac{1}{(+\frac{1}{2}y^{2} + o(y^{2}))} = \frac{1}{1+\frac{1}{2}y^{2} + o(y^{2})} + \frac{1}{1+\frac{1}{2}y^{2} + o(y^{2})} + \frac{1}{1+\frac{1}{2}y^{2} + o(y^{2})} + \frac{1}{1+\frac{1}{2}y^{2} + o(y^{2})} = \frac{1}{1+\frac{1$$

アナンダナマ=4
2. F,(xo. yo. 20) (x-20) + Fy(20, yo. 2) (y-y.) + Fz(xo. yo. 20) (2-20)=0

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ア (xo. yo. 20) (x-20) + Fy(20, yo. 2) (y-y.) + Fz(xo. yo. 20) (2-20)=0

ア (xo. yo. 20) (x-20) + Fy(20) = 0

和 (xo. yo. 20) (x-20) + Fy(20) = 0