Remainine zaganne k grony N 9

(1) Rown
$$\frac{d^2}{dt}$$
, ecun $\frac{2\pi}{2}(\alpha,y)$, $\alpha=\alpha(t)$, $y=y(t)$:

1) $\frac{2\pi}{2} \frac{\pi}{2} \frac{\pi}{2} \frac{\pi}{2} \frac{\pi}{2} \frac{\pi}{2}$, $\alpha=2\pi \frac{\pi}{2} \frac{\pi}{2}$

 $\frac{\delta^2}{\delta h} = 3ae^2 \cdot \delta + 3g^2 \cdot \frac{1}{\delta}$

$$\frac{\partial^{2}}{\partial \sigma} = \frac{\partial^{2}}{\partial x} \cdot \frac{\partial x}{\partial \sigma} + \frac{\partial^{2}}{\partial y} \cdot \frac{\partial y}{\partial \sigma}$$

$$\frac{\partial x}{\partial \sigma} = \mathcal{U} \quad ; \quad \frac{\partial x}{\partial \sigma} = -\frac{3}{\sigma^{2}}$$

$$\frac{\partial^{2}}{\partial \sigma} = 3x^{2} \cdot \mathcal{U} + 3y^{2} \cdot \left(\frac{3}{\sigma^{2}}\right)$$

$$2'_{u} = 30x^{2} \cdot \mathcal{J} + \frac{3y^{2}}{\sigma} \quad ; \quad z'_{\sigma} = 2x^{2}\mathcal{U} - \frac{9y^{2}}{\sigma^{2}}$$

$$\frac{\partial^{2}}{\partial \sigma} = 3(\mathcal{U} \cdot \sigma)^{2} \cdot \mathcal{J} + \frac{3}{\sigma} \left(\frac{1}{\sigma}\right)^{2}$$

$$\frac{\partial^{2}}{\partial \sigma} = 3(\mathcal{U} \cdot \sigma)^{2} \cdot \mathcal{U} - \frac{9}{\sigma^{2}} \cdot \left(\frac{1}{\sigma}\right)^{2}$$

$$\frac{\partial^{2}}{\partial \sigma} = 3(\mathcal{U} \cdot \sigma)^{2} \cdot \mathcal{U} - \frac{9}{\sigma^{2}} \cdot \left(\frac{1}{\sigma}\right)^{2}$$

$$\frac{\partial^{2}}{\partial \sigma} = \frac{\partial^{2}}{\partial u} \cdot \partial u + \frac{\partial^{2}}{\partial \sigma} \cdot \partial u = \mathcal{E} \cdot \partial u + \mathcal{U} \cdot \partial \sigma$$

$$\frac{\partial^{2}}{\partial \sigma} = \frac{\partial^{2}}{\partial u} \cdot \partial u + \frac{\partial^{2}}{\partial u} \cdot \partial \sigma = \frac{1}{\sigma^{2}} \cdot \partial u + \left(\frac{3}{\sigma^{2}}\right) \cdot \partial \sigma$$

$$\frac{\partial^{2}}{\partial \sigma} = \frac{\partial^{2}}{\partial u} \cdot \partial u + \frac{\partial^{2}}{\partial u} \cdot \partial u + \frac{\partial^{2}}{\partial u} \cdot \partial u + \frac{\partial^{2}}{\partial u} \cdot \partial u$$

$$\frac{\partial^{2}}{\partial u} = \frac{\partial^{2}}{\partial u} \cdot \partial u + \frac{\partial^{2}}{\partial u} \cdot \partial u$$

$$\frac{\partial^{2}}{\partial u} = -y \cdot \frac{\partial^{2}}{\partial u} \cdot \frac{\partial^{2}}{\partial u} = e^{\sigma}, \quad \frac{\partial^{2}}{\partial y} = -\infty \cdot 8uy; \quad \frac{\partial^{2}}{\partial u} = \frac{\pi}{u}$$

$$\frac{\partial^{2}}{\partial u} = -y \cdot 8uxe \cdot e^{\sigma} + \left(-\infty \cdot 8uy\right) \cdot \frac{\pi}{u}$$

$$\frac{\partial^2}{\partial \sigma} = \frac{\partial^2}{\partial R} \cdot \frac{\partial R}{\partial \sigma} + \frac{\partial^2}{\partial g} \cdot \frac{\partial g}{\partial \delta}$$

$$\frac{\partial R}{\partial \sigma} = \mathcal{U} e^{\sigma} \cdot \frac{\partial g}{\partial \sigma} = ln\mathcal{U}$$

$$\frac{\partial^2}{\partial \sigma} = -g \cdot sun\mathcal{R} \cdot \mathcal{U} e^{\sigma} + (-\mathcal{R} \cdot sung) ln\mathcal{U}$$

$$\frac{\partial^2}{\partial \sigma} = -g \cdot ln\mathcal{U} \cdot sun(\mathcal{R} e^{\sigma}) \cdot e^{\sigma} + (-\mathcal{U} e^{\sigma} \cdot sun(\mathcal{D} e_{\mathcal{U}} k)) \cdot \frac{\pi}{a}$$

$$\frac{\partial^2}{\partial \sigma} = -(\mathcal{D} ln\mathcal{U}) \cdot sun(\mathcal{R} e^{\sigma}) \cdot \mathcal{U} e^{\sigma} + (-\mathcal{U} e^{\sigma} \cdot sun(\mathcal{D} e_{\mathcal{U}} k)) \cdot ln\mathcal{U}$$

$$\frac{\partial^2}{\partial \sigma} = \frac{\partial^2}{\partial \sigma} \cdot d\sigma + \frac{\partial^2}{\partial \sigma} \cdot d\sigma = e^{\sigma} \cdot dn + \mathcal{U} e^{\sigma} \cdot d\sigma$$

$$\frac{\partial^2}{\partial \sigma} = \frac{\partial^2}{\partial \sigma} \cdot du + \frac{\partial^2}{\partial \sigma} \cdot d\sigma = e^{\sigma} \cdot dn + \mathcal{U} e^{\sigma} \cdot d\sigma$$

$$\frac{\partial^2}{\partial \sigma} = \frac{\partial^2}{\partial \sigma} \cdot du + \frac{\partial^2}{\partial \sigma} \cdot d\sigma = \frac{\delta}{\sigma} \cdot du + ln\mathcal{U} \cdot d\sigma$$

$$\frac{\partial^2}{\partial \sigma} = \frac{\partial^2}{\partial \sigma} \cdot du + \frac{\partial^2}{\partial \sigma} \cdot d\sigma = \frac{\delta}{\sigma} \cdot du + ln\mathcal{U} \cdot d\sigma$$

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$$\frac{\partial^2}{\partial \sigma} = \frac{\partial^2}{\partial \sigma} \cdot du + \frac{\partial^2}{\partial \sigma} \cdot d\sigma = \frac{\delta}{\sigma} \cdot du + ln\mathcal{U} \cdot d\sigma$$

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$$\frac{\partial^2}{\partial \sigma} = \frac{\partial^2}{\partial \sigma} \cdot du + \frac{\partial^2}{\partial \sigma} \cdot d\sigma = \frac{\partial^2}{\partial \sigma} \cdot$$

 $F(x,y) = xe^{xy} - ylnx - 8$ $F(y) = xe^{2y} - lnx = xe^{2y}$

Coeroluso ypolneme rocarenceia premon on respensees κ spulon g=g(x), zagannoù ypolnemen $F(\alpha,g)=0$ l roune Mo (ao, yo): œ y-y æ=6, Ho(2;1) F(x,y) = & y-y & -6 F(2)1) = 8.1-1.2-6=0 - Bene seemen no approprie Fy = 00 3 - 3 y 200 Fy(2,1)=8-3.1.2=2 For = 300 y - y 3 Fac(2,1) = 3.4.1-1=11 Tpulmenne racaseccion: y-y0= k(x-x6) $y' = \frac{F'_{\times}}{F'_{y}}$ k = y (20) = -2 (t) g-1 = - = (x-2) Ipolenenue respenseus y-y0 = - 1 (x-x0) (n): y-1= = = (x-2)

В Дене данных функций майте требуещую кастедо производную ими диффереренциам:

1) z = 8in xe z eng, ol z - ?• $dz = \frac{\partial^2}{\partial x} dx + \frac{\partial^2}{\partial y} dy = 8in y \cdot ces xe el x + 8in xe cos y el y$ • $\frac{\partial^2}{\partial x^2} = \frac{\partial}{\partial xe} (8in y ces xe) = 8in y \cdot ces xe$

 $\frac{\partial^{2} z}{\partial \alpha \partial y} = \frac{\partial}{\partial y} \left(8uny \cos \alpha \right)^{2} \cos \alpha \cos y$ $\frac{\partial^{2} z}{\partial y^{2}} = \frac{\partial}{\partial y} \left(8unx \cdot \cos y \right) = -8un \cos 8uny$

•
$$d^{2}_{z} = -8 \ln y \cos 2 \cos 2 + 2 \cos 2 \cos 3 - 8 \cos 8 \cos 9$$

A) $z = \frac{\alpha y}{8} + 8 \sin (\alpha + y)$, $\frac{\partial^{2} z}{\partial \alpha^{2}} = ?$

• $\frac{\partial^{2} z}{\partial x} = \frac{\partial}{\partial x} (y + \cos (\alpha + y)) = (\cos (\alpha + y))^{2} (\alpha + y)^{2} = -8 \sin (\alpha + y)$

5) $z = \arctan \frac{\alpha + y}{1 - \alpha y}$, $\frac{\partial^{2} z}{\partial x \partial y} = ?$

• $\frac{\partial^{2} z}{\partial x} = (\arcsin \frac{\alpha + y}{1 - \alpha y}) = (\arcsin \frac{\alpha + y}{1 - \alpha y})^{2} \cdot (\frac{\alpha + y}{1 - \alpha y}) = \frac{f}{1 - y \alpha} + \frac{y (\alpha + y)}{1 - y \alpha} \cdot (\frac{\alpha + y}{1 - \alpha y})^{2} = \frac{f}{1 + \frac{y (\alpha + y)}{1 - y \alpha}} \cdot (\frac{\alpha + y}{1 - y \alpha})^{2} \cdot (\frac{\alpha + y}{1 - y \alpha})^{2} = \frac{f}{1 + \frac{y (\alpha + y)}{1 - y \alpha}} \cdot (\frac{\alpha + y}{1 - y \alpha})^{2} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} + \frac{y (\alpha + y)}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} + \frac{y (\alpha + y)}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} + \frac{y (\alpha + y)}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} + \frac{y (\alpha + y)}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} + \frac{y (\alpha + y)}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} + \frac{y (\alpha + y)}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} + \frac{y (\alpha + y)}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} + \frac{y (\alpha + y)}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} + \frac{y (\alpha + y)}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} + \frac{y (\alpha + y)}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} + \frac{y (\alpha + y)}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} + \frac{y (\alpha + y)}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} + \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^{2} = \frac{f}{1 - y \alpha} \cdot (\frac{1 - y \alpha}{1 - y \alpha})^$

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$$\frac{\delta^{2}z}{\partial x \partial y} = \frac{\delta}{\partial y} \left(\frac{1}{1-yx} + y \cdot \frac{x+y}{(1-yx)^{2}} \right)^{2} + \frac{(x+y)^{2}}{(1-yx)^{2}} = \frac{1}{1-yx} + y \cdot \frac{x+y}{(1-yx)^{2}} \cdot \left(1 + \frac{(y+xx)^{2}}{(1-yx)^{2}} \right)^{2} - \left(\frac{1}{1-yx} + y \cdot \frac{x+y}{(1-yx)^{2}} \right) \cdot \left(1 + \frac{(y+xx)^{2}}{(1-yx)^{2}} \right)^{2} - \left(\frac{1}{1-yx} + y \cdot \frac{x+y}{(1-yx)^{2}} \right) \cdot \left(1 + \frac{(y+xx)^{2}}{(1-yx)^{2}} \right)^{2} - \frac{1}{1-yx} + y \cdot \frac{x+y}{(1-yx)^{2}} \cdot \frac{x+y}{(1-yx)^{2}} \cdot \left(\frac{1}{1-yx} + \frac{x+y}{(1-yx)^{2}} \right)^{2} - \frac{1}{1-yx} \cdot \frac{x+y}{(1-yx)^{2}} \cdot \frac{x+y}{(1-yx)^{2}} \cdot \left(\frac{1}{1-yx} + \frac{x+y}{(1-yx)^{2}} \right)^{2} - \frac{1}{1-yx} \cdot \frac{x+y}{(1-yx)^{2}} \cdot \left(\frac{1}{1-yx} + \frac{x+y}{(1-yx)^{2}} \right)^{2} - \frac{1}{1-yx} \cdot \frac{x+y}{(1-yx)^{2}} \cdot \left(\frac{1}{1-yx} + \frac{x+y}{(1-yx)^{2}} \right)^{2} - \frac{1}{1-yx} \cdot \frac{x+y}{(1-yx)^{2}} \cdot \frac{x+y}{(1-yx)^{2}} \cdot \left(\frac{1}{1-yx} + \frac{x+x}{(1-yx)^{2}} \right)^{2} - \frac{1}{1-yx} \cdot \frac{x+y}{(1-yx)^{2}} \cdot \frac{x+y}{(1-yx)^{2}}$$

(6) Havin y', y''n y'' gene nedbrou pynngun y-glæ), grysnera neubur gpobnemen æ²-æy+2y²+æ-g=1 npn æ=0, ecun y(0)=1 De - dey + 2y2+De-y-1=0 y'= 29e-y-2ey'+4y.y'+1-y'=0 y"= 2-y"-y'-90y"+4-(y')-9"=0 $y''' = -y''' - (y')^2 - y''' - 2y''' + 9(y')^2 - y''' = -2y''' - 2y''' - 2y''' - y'' + 3(y')^2$ go=0) y=1 y (0) = -1-0+ 4.0+1-0=0 y"(0) = 2-0-0-0+4.0-0=0 y"(0) = 0-0-0-0+0-0=0 Dene grungen 2= arcte de novspour encenne ypelme u spaquent. Cpalmert ux nonpoberence l'ovenox (1;1), - Ta corchy & & a Z= oreto = e 2 de 2 - 3 (1+ gr) 2/2 (1,1) = - 1 2/ge (1;-1)= £

 $\begin{aligned}
& \frac{\partial}{\partial x} = \operatorname{corefy} \frac{dy}{dx} = \operatorname{c} & -\frac{\pi}{d} \leq \operatorname{corefy} \frac{dy}{dx} \leq \frac{\pi}{d} \\
& \frac{\partial}{\partial x} = -\frac{\partial}{\partial x^2} \cdot \left(1 + \frac{\partial^2}{\partial x^2} \right) & \frac{\partial}{\partial x} \left(1, 1 \right) = -\frac{1}{d} \\
& \frac{\partial}{\partial x} \left(1, 1 \right) = -\frac{1}{d} & \frac{\partial}{\partial x} \left(1, 1 \right) = \frac{1}{d} \\
& \frac{\partial}{\partial x} \left(\frac{\partial^2}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) \\
& \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2} + 1 \right) & \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x^2}$