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2)
$$\frac{dz}{dx} = \frac{dz}{dv} \cdot \frac{du}{dx} + \frac{dz}{dv} \cdot \frac{dv}{dx}$$

$$= (\frac{1}{1}(u-v) + \frac{u}{u-v})(-e^{-x}) + u \cdot \frac{1}{u-v} \cdot (-1) \cdot \frac{1}{x}$$

$$= \frac{e^{-x}}{1} - \frac{1}{e^{x}} - \frac{1}{1} - \frac{1}{x} + \frac{1}{x} - \frac{1}{x} - \frac{1}{x}$$

$$= \frac{e^{-x}}{e^{x}} - \frac{1}{1} - \frac{1}{x} + \frac{1}{x} - \frac{1}{x} - \frac{1}{x}$$
5. $\frac{\partial u}{\partial x} = \int_{x}^{x} - \cos\theta + \int_{y}^{x} - \sin\theta$

$$\frac{\partial u}{\partial \theta} = V \int_{X}^{x} (-Sin\theta) + V \int_{Y}^{y} \cdot \cos\theta$$

$$\frac{\partial u}{\partial x} = \int_{X}^{x} \left(\frac{\partial u}{\partial y} \right)^{2} + \left(\frac{1}{V} \frac{\partial u}{\partial \theta} \right)^{2} = \int_{X}^{y} (Sin^{3}\theta + \cos^{2}\theta) + \int_{Y}^{y} (Sin^{3}\theta + \cos^{2}\theta) = \int_{X}^{y} (\frac{\partial u}{\partial x})^{2} + \left(\frac{\partial u}{\partial y} \right)^{2} + \left(\frac{\partial u}{\partial y}$$

$$A = A$$

$$A$$

故原为程可以简为 参加 + 参加 - 参加 + 参加 = 0

 $f'_{1}(2n\cdot u\dot{x}-2x)+f'_{2}\cdot 2nu\dot{x}+f'_{3}\cdot 2nu\dot{x}=0 \Rightarrow (f'_{1}+f'_{2}+f'_{3})\frac{u\dot{x}}{x}=\frac{1}{u}f'_{1}$ $f'_{1}\cdot 2nu\dot{y}+f'_{2}\cdot (2nu\dot{y}-2y)+f'_{3}\cdot 2nu\dot{y}=0 \Rightarrow (f'_{1}+f'_{2}+f'_{3})\frac{u\dot{y}}{y}=\frac{1}{u}f'_{2}$ $f'_{1}\cdot 2nu\dot{z}+f'_{2}\cdot 2nu\dot{z}+f'_{3}(2nuz-2z)=0 \Rightarrow (f'_{1}+f'_{2}+f'_{3})\frac{u\dot{z}}{z}=\frac{1}{u}f'_{3}$ $=\dot{\chi}$ $=\dot{\chi}$ $\frac{\partial u}{\partial x}+\frac{\partial u}{\partial x}+\frac{\partial u}{\partial y}+\frac{1}{z}\frac{\partial u}{\partial z}=\frac{1}{u}$

用みzが写る $\begin{cases} 2(\frac{dx}{dz})^2 + 2 \cdot x \frac{dx}{dz} + 2(\frac{dy}{dz})^2 + 2y \frac{dy}{dz} = 1 \\ \frac{dx}{dz^2} + \frac{dy}{dz^2} = 0 \end{cases}$ $\begin{cases} 2(\frac{dx}{dz})^2 + 2 \cdot x \frac{dx}{dz} = 1 \\ \frac{d^2y}{dz^2} = \frac{1}{4} \end{cases}$

 dz^{2} dz^{2}