$$d\beta = \frac{\partial a \partial t}{\partial \beta} \cdot \stackrel{\mathcal{N}}{\leq} da \partial t$$

$$= \stackrel{\mathcal{N}}{\leq} da \partial t$$

$$= \stackrel{\mathcal{N}}{\leq} da \partial t$$

now, to find dx

eq 1.3
$$(N,D)$$

$$d\hat{x} = \frac{\partial \delta \hat{x}}{\partial \hat{x}} \cdot dost = \delta \cdot dost$$

eg 1.4

Let's assume
$$a=x-N$$
, and $b=\frac{1}{6^2+8}$

$$d(1-4) = d\hat{x} \cdot \frac{\partial \hat{x}}{\partial \alpha} = d\hat{x} \cdot \frac{\partial ab}{\partial \alpha} = d\hat{x} \cdot b = \frac{d\hat{x}}{\sqrt{6}}$$

$$\frac{eq1.5}{10.1}$$

$$10.1$$

$$10.5 \stackrel{?}{\geq} d\hat{x} \cdot d\hat{x} = \stackrel{?}{\leq} d\hat{x} \cdot a = \stackrel{?}{\leq} d\hat{x} \cdot (x_i - y_i)$$

$$i=1 \quad \partial b \quad i=1$$

$$\frac{d(\frac{1}{x})}{dx} = -\frac{1}{x^2}$$

therefore,
$$d(1.51) = -b^2 \cdot d(1.5) = -d(1.5)$$

$$\frac{(D.)}{6^2 + 6}$$

eq1.52

eg 1.51

$$\frac{d(\sqrt{x+e})}{dx} = \frac{d((x+e)^{\frac{1}{2}})}{dx} = \frac{1}{2}(x+e)^{-\frac{1}{2}}$$

$$= \frac{1}{2} \frac{1}{\sqrt{x+e}}$$

there fore,
$$d(1-52) = \frac{1}{2} \cdot \frac{1}{\sqrt{6^2+8}} \cdot d(1-51)$$

$$\frac{\partial \left(\frac{1}{N} \stackrel{\cancel{\xi}}{\underset{i=1}{\cancel{\xi}}}\right) = 1}{\partial x}, \text{ but since } d(1-53) \text{ is of size}(N,0)}$$

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$$\frac{\partial \left(\frac{1}{N} \stackrel{\cancel{\xi}}{\underset{i=1}{\cancel{\xi}}}\right)}{\partial x} = \frac{1}{N} \frac{\partial \left(\frac{1}{N} \stackrel{\cancel{\xi$$

$$\frac{d^2 x^2}{x^2} = 2x$$

$$(N,D)$$
 (N,D) (N,D)
 $d(1-7) = d(1-4) + d(1-54)$
(since $d_{x-y} = 1$)

$$\frac{(N \times D)}{d(1-8)} = \frac{1}{N} \cdot \frac{1}{x} \cdot \frac{1$$

$$(N,D)$$
 (N,D) (N,D) (N,D) (N,D) (N,D) (N,D) (N,D)