[175r] [in De Morgan's hand] This complete differential of $\varphi$, as it is called namely
$\frac{d \varphi}{d x} \cdot d x+\frac{d \varphi}{d y} \cdot d y+\frac{d \varphi}{d z} \cdot d z$
is a perfectly distinct thing from $\frac{d \varphi}{d x}+\frac{d \varphi}{d y}+\frac{d \varphi}{d z}$
and also from $\frac{d^{3} \varphi}{d x d y d z}$
Read again page 86 when $x$ is changed
to $\qquad$ end of 87
page 198-199 \& the references
$\left.\begin{array}{lll}\frac{d \varphi}{d x} d x & \text { is } & d \varphi \\ \frac{d \varphi}{d y} d y & \text { is } & d \varphi\end{array}\right\} \begin{aligned} & \text { But the first means the } d \varphi \text { which } \\ & \text { is caused by variation of } x, \text { and the } \\ & \text { second has the same reference to } y .\end{aligned}$

