## Cheatsheet for 001-004-diff.tex

```
\backslash exD
                                                                                \mathrm{d}x,\;\mathrm{d}x\mathrm{d}y\mathrm{d}z,\;\partial x,\;\partial x\partial y\partial z
                                                                                      \mathrm{d}x
\ensuremath{\texttt{exDFrac}}
                                                                               \overline{\mathrm{d}y\mathrm{d}z}, \ \overline{\partial y\partial z} \\ \mathrm{d}^n x, \ \mathrm{d}^n x \mathrm{d}^n y \mathrm{d}^n z, \ \partial^n x, \ \partial^n x \partial^n y \partial^n z
\ensuremath{\texttt{exDn}}
                                                                                      \mathrm{d}^n x
\ensuremath{\verb|exDFracn|}
                                                                                \begin{array}{l} \overline{\mathrm{d}y\mathrm{d}z^n}, \ \overline{\partial y\partial z^n} \\ \mathrm{d}^2x, \ \mathrm{d}^2x\mathrm{d}^2y\mathrm{d}^2z, \ \partial^2x, \ \partial^2x\partial^2y\partial^2z \end{array}
\ensuremath{\setminus} \mathtt{exDSecond}
                                                                                     \mathrm{d}^2 x
                                                                                                                       \partial^2 x
                                                                                \frac{\mathrm{d}^{2}x}{\mathrm{d}y\mathrm{d}z^{2}}, \frac{\partial^{2}x}{\partial y\partial z^{2}}
\frac{\mathrm{d}x}{\mathrm{d}y\mathrm{d}z}(i^{n}), \frac{\partial x}{\partial y\partial z}(i^{n})
\nabla f, \nabla f(x)
\nabla f|_{x_{0}}, \nabla f|_{x_{0}}(x)
\verb|\ensuremath{\backslash} exDFracSecond|
\backslash \mathtt{exDFun}
\exGradA
\exGradB
                                                                                 \int f(x) dx
\ensuremath{\texttt{\sc Normalize}}
                                                                                                    f(x)\mathrm{d}x
\ensuremath{\texttt{exIntB}}
                                                                               \int_{x=1}^{\overline{n}} f(x) dx
\int_{x=1}^{n} \int_{y < x} \iint_{z=0}^{x^{2}} f(x, y, z) dx dy dz
\iiint f(x, y, z) dx dy dz
\ensuremath{\texttt{\c NexIntC}}
\ensuremath{\texttt{exIntD}}
\ensuremath{\texttt{exIntE}}
```