No	command	expected	result
1	$\order{x}{f}$	$\frac{\mathrm{d}f}{\mathrm{d}x}$	$\frac{\mathrm{d}f}{\mathrm{d}x}$
2	\odr{x}[2]{f}	$\frac{\mathrm{d}^2 f}{\mathrm{d}x^2}$	$\frac{\mathrm{d}^2 f}{\mathrm{d}x^2}$
3	\odr{x}[n]{f}	$\frac{\mathrm{d}^n f}{\mathrm{d}x^n}$	$\frac{\mathrm{d}^n f}{\mathrm{d}x^n}$
4	$\order{x_1}{f}$	$\frac{\mathrm{d}f}{\mathrm{d}x_1}$	$\frac{\mathrm{d}f}{\mathrm{d}x_1}$
5	\odr{x_1}{y_2}	$\frac{\mathrm{d}y_2}{\mathrm{d}x_1}$	$\frac{\mathrm{d}y_2}{\mathrm{d}x_1}$
6	$\order{t}{\bm{u}}$	$\frac{\mathrm{d} oldsymbol{u}}{\mathrm{d} t}$	$\frac{\mathrm{d} \boldsymbol{u}}{\mathrm{d} t}$
7	$\operatorname{\operatorname{dr}}\{bm\{x\}\}\{f\}$	$\frac{\mathrm{d}f}{\mathrm{d}oldsymbol{x}}$	$\frac{\mathrm{d}f}{\mathrm{d}\boldsymbol{x}}$

No	command	expected	result
1	\pdr{{x}{f}}	$\frac{\partial f}{\partial x}$	$\frac{\partial f}{\partial x}$
2	\pdr{{x}[2]{f}}	$\frac{\partial^2 f}{\partial x^2}$	$\frac{\partial^2 f}{\partial x^2}$
3	\pdr{{x}{y}{f}}	$\frac{\partial^2 f}{\partial x \partial y}$	$\frac{\partial^2 f}{\partial x \partial y}$
4	\pdr{{x}[2]{y}{f}}	$\frac{\partial^3 f}{\partial x^2 \partial y}$	$\frac{\partial^3 f}{\partial x^2 \partial y}$
5	\pdr{{x}[2]{y}[3]{f}}	$\frac{\partial^5 f}{\partial x^2 \partial y^3}$	$\frac{\partial^5 f}{\partial x^2 \partial y^3}$
6	\pdr{{x_1}{y}}	$\frac{\partial y}{\partial x_1}$	$\frac{\partial y}{\partial x_1}$
7	\pdr{{x}{f_2}}	$\frac{\partial f_2}{\partial x}$	$\frac{\partial f_2}{\partial x}$
8	$\pdr{{x_1}{t}{f}}$	$\frac{\partial^2 f}{\partial x_1 \partial t}$	$\frac{\partial^2 f}{\partial x_1 \partial t}$
9	\pdr{{x_1}{x_2}{f}}	$\frac{\partial^2 f}{\partial x_1 \partial x_2}$	$\frac{\partial^2 f}{\partial x_1 \partial x_2}$
10	\pdr{{\bm{x}}{f}}	$rac{\partial f}{\partial oldsymbol{x}}$	$rac{\partial f}{\partial oldsymbol{x}}$
11	\pdr{{\bm{x}}{\bm{y}}{f}}	$rac{\partial^2 f}{\partial m{x} \partial m{y}}$	$rac{\partial^2 f}{\partial m{x} \partial m{y}}$
12	\pdr{{\bm{x}_1}{\bm{y}_2}{f}}	$rac{\partial^2 f}{\partial oldsymbol{x}_1 \partial oldsymbol{y}_2}$	$rac{\partial^2 f}{\partial oldsymbol{x}_1 \partial oldsymbol{y}_2}$
13	\pdr{{x}[2]{\bm{u}}}	$\frac{\partial^2 \boldsymbol{u}}{\partial x^2}$	$\frac{\partial^2 \boldsymbol{u}}{\partial x^2}$
14	\pdr{{x}{\bm{u}}}+\pdr{{y}{\bm{u}}}	$\frac{\partial \boldsymbol{u}}{\partial x} + \frac{\partial \boldsymbol{u}}{\partial y}$	$\frac{\partial \boldsymbol{u}}{\partial x} + \frac{\partial \boldsymbol{u}}{\partial y}$
15	\pdr{{x}{}}	$\frac{\partial}{\partial x}$	$\frac{\partial}{\partial x}$
16	\pdr{{x_1}{}}	$\frac{\partial}{\partial x_1}$	$\frac{\partial}{\partial x_1}$
17	\pdr{{\bm{x}}{}}	$rac{\partial}{\partial m{x}}$	$rac{\partial}{\partial m{x}}$

No	command	expected	result
1	\pdr*{{x}[n]{f}[n]}	$\frac{\partial^n f}{\partial x^n}$	$\frac{\partial^n f}{\partial x^n}$
2	\pdr*{{x}[n]{}[n]}	$\frac{\partial^n}{\partial x^n}$	$\frac{\partial^n f}{\partial x^n}$
3	\pdr*{{x}[n]{y}[m]{f}[n+m]}	$\frac{\partial^{n+m} f}{\partial x^n \partial y^m}$	$\frac{\partial^{n+m} f}{\partial x^n \partial y^m}$
4	\pdr*{{x}[1]{y}[1]{f}[1+1]}	$\frac{\partial^{1+1} f}{\partial x^1 \partial y^1}$	$\frac{\partial^{1+1} f}{\partial x^1 \partial y^1}$
5	\pdr*{{x}{y}[n]{f}[n+1]}	$\frac{\partial^{n+1} f}{\partial x \partial y^n}$	$\frac{\partial^{n+1} f}{\partial x \partial y^n}$

No	command	expected	result
1	\pdrr{{x}{f}}	$\partial_x f$	$\partial_x f$
2	\pdrr{{i}{j}{f}}	$\partial_i \partial_j f$	$\partial_i \partial_j f$
3	\pdrr{{i}*{j}{f}}	$\partial_i \partial^j f$	$\partial_i \partial^j f$
4	\pdrr{*{i}{j}{f}}	$\partial^i\partial_j f$	$\partial^i \partial_j f$

No	command	expected	result
1	\grad{f}	$\nabla f$	$\nabla f$
2	$\div\bm{v}$	$ abla \cdot oldsymbol{v}$	$ abla \cdot oldsymbol{v}$
3	\rot\bm{v}	$ abla imes oldsymbol{v}$	$ abla imes oldsymbol{v}$
4	\curl\bm{v}	$ abla imes oldsymbol{v}$	$ abla imes oldsymbol{v}$
5	\laplace{f}	$ abla^2 f$	$ abla^2 f$
6	$\displaystyle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\Delta f$	$\Delta f$
7	$\displaystyle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$ abla^2 f$	$ abla^2 f$
8	\gradr{f}	$\operatorname{grad} f$	$\operatorname{grad} f$
9	\divr{\bm{v}}	$\operatorname{div} \boldsymbol{v}$	$\mathrm{div} \boldsymbol{v}$
10	$\rder{\bm{v}}$	$\mathrm{rot} \boldsymbol{v}$	$\mathrm{rot}~\boldsymbol{v}$
11	$\grad[\bm\{r\}]\{f\}$	$\nabla_{m{r}} f$	$\nabla_{\boldsymbol{r}} f$
12	\grad''{f}	$\nabla'' f$	$\nabla'' f$
13	\grad<(2)>{f}	$\nabla^{(2)}f$	$\nabla^{(2)}f$
14	\gradr''{f}	$\operatorname{grad}'' f$	$\operatorname{grad}'' f$
15	\Grad{f}	$\nabla \left( f\right)$	$\nabla \left( f\right)$
16	\Rot''{\bm{v}}	$\nabla''\times(\boldsymbol{v})$	$ abla''  imes (oldsymbol{v})$