The bracket package

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1 brackets

1.1 automatically sizable brackets

$\label{linear} \$	(a)
$\label{lrbrack} \$	[a]
$\label{lrbrace} \$	$\{a\}$
$\frac{a}{a}$	$\langle a \rangle$
$\left(\exp \left(a\right) \right)$	$\langle a \rangle$
$\label{lrvert} \$	a
$abs{a}$	a
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	a
$\operatorname{norm}\{a\}$	a
$\operatorname{\operatorname{Vorder}}\{a\}$	$\mathcal{O}(a)$
lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:	$\frac{dU}{dx}\Big _{x=0}$

1.2 manually sizable brackets

2 Dirac bra-ket notation

$$\begin{array}{lll} \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{2} \right| & \left\langle \frac{1}{2} \right| \\ & \left\langle \frac{1}{$$

3 set

 $\label{eq:continuous} \ \, \langle x \in \mathbb{C} \ | \ 0 < |x| < 3 \} \quad \ \, \{x \in \mathbb{C} \ | \ 0 < |x| < 3 \}$