## **Collection of Math Macros**

## **Number Sets**

Command	Output
\reals	$\mathbb{R}$
\integers	$\mathbb{Z}$
\naturals	N
\rationals	Q
\complex	C

## The Rest

Will organize later

Command	Output
\vare	ε
\set{x}	$\{x\}$
\card{A}	A
\floor{x}	$\lfloor x  floor$
\ceil{x}	$\lceil x  ceil$
$\ag{x}$	$\langle x  angle$
\bracket{x}	[x]
\curly{x}	$\{x\}$
\paren{x}	(x)
\prob{A}	$\Pr\left[A\right]$
\exp{X}	$\mathbb{E}\left[X ight]$
\expsq{X}	$\mathbb{E}^{2}\left[ X ight]$
\var{X}	$\mathrm{Var}\left[X ight]$
\pmod{n}	$\pmod{n}$
\percent{x}	x%
\real{x}	$\Re\left(x ight)$
\comp{x}	$\Im\left(x ight)$
\deriv{f}{x}	$\frac{df}{dx}$
\limi{n}	$\lim_{n o\infty}$
\limit{x}{a}	$\lim_{x o a}$
\vec{v}	v

Command	Output
\veca{a}	[a]
\trace{A}	$\mathrm{Tr}\left(A ight)$
\cov{X}	$\mathrm{Cov}\left(X ight)$