Collection of Math Macros

Number Sets

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

The Rest

Will organize later

| Command | Output |
|-------------|-----------------------------|
| \vare | ε |
| \set{x} | $\{x\}$ |
| \card{A} | A |
| \floor{x} | $\lfloor x floor$ |
| \ceil{x} | $\lceil x ceil$ |
| \ang{x} | $\langle x angle$ |
| \bracket{x} | [x] |
| \curly{x} | $\{x\}$ |
| \paren{x} | (x) |
| \prob{A} | $\Pr\left[A ight]$ |
| \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% |

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