

Cheatsheet

Vectors

\vec{x} \overline{x} \underline{x} \mathbf{x}

$\vec{\mathbf{x}}$ $\overline{\mathbf{x}}$ $\underline{\mathbf{x}}$

```
\vec{x} \overline{x} \underline{x} \mathbf{x}
\vec{\mathbf{x}} \overline{\mathbf{x}} \underline{\mathbf{x}}
```

Matrix with dimensions

$\overset{A}{n \times m}$ `\underset{n \times m}{A}`

Big A

$\overset{2}{A}_0$ `\usepackage{graphicx} \scalebox{1.5}{A}^2_0`

Matrices (p for parens, b for brackets, v for verts, B for braces, V for double verts.)

```
1 \begin{matrix} 1 \end{matrix}
(1) \begin{pmatrix} 1 \end{pmatrix}
[1] \begin{bmatrix} 1 \end{bmatrix}
|1| \begin{vmatrix} 1 \end{vmatrix}
{1} \begin{Bmatrix} 1 \end{Bmatrix}
||1|| \begin{Vmatrix} 1 \end{Vmatrix}
```

Tilde

$\tilde{\quad}$ `\textasciitilde` OR `\~{}`

Question mark over equal sign

? `\stackrel{?}{=}`

Change color

```
Hello            \usepackage{xcolor} \color{red}{\text{Hello}}  
Hello            \textcolor{red}{Hello}
```