Latex - Matrix



VINYASI
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You can create matrices in LaTeX **using the Overleaf LaTeX Matrices Guide** with environments like matrix, pmatrix, and bmatrix from the amsmath package. [1, 2]

Basic Matrix Environments

Inside math mode, use & to separate columns and \\ to start a new row. [3]

- **No delimiters (**matrix**)**:

```
\begin{matrix}
1 & 2 \\
3 & 4
\end{matrix}
```

- **Parentheses (**pmatrix**)**:

```
\begin{pmatrix}
1 & 2 \\
3 & 4
\end{pmatrix}
```

- **Square brackets (**bmatrix**)**:

```
\begin{bmatrix}
1 & 2 \\
3 & 4
\end{bmatrix}
```

- **Curly braces (**Bmatrix**)**:

```
\begin{Bmatrix}
1 & 2 \\
3 & 4
\end{Bmatrix}
```

- **Single vertical bars (**vmatrix **- for determinants)**:

```
\begin{vmatrix}
1 & 2 \\
3 & 4
\end{vmatrix}
```

- **Double vertical bars (**Vmatrix **- for norms)**:

```
\begin{Vmatrix}
1 & 2 \\
3 & 4
\end{Vmatrix}
```

- [3, 4, 5]

Inline Matrices

For smaller matrices in text lines, use smallmatrix: [1]

```
$\bigl(\begin{smallmatrix} a & b \\ c & d \end{smallmatrix}\bigr)$
```

If you want, tell me:

- What **size or type** of matrix you need (e.g., n × n, identity, augmented)
- If you need help with **dots or special alignment**

I can write the exact code for you.

[1] https://www.overleaf.com

[2] https://tex.stackexchange.com

[3] https://www.underleaf.ai

[4] https://community.atlassian.com

[5] https://www.overleaf.com