Types of matrices and determinants: There are five types of matrices that can be typeset. Syntax:
\[ A = \begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{bmatrix} \]

Syntax: \begin{pmatrix} a_{11} \\ a_{21} \end{pmatrix}

Syntax: \begin{vmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{vmatrix}

Syntax: \begin{Vmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{Vmatrix}

Syntax: \begin{Bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{Bmatrix}

Syntax: \begin{vmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{vmatrix}

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Features in equation numbering:

- Adding star (*) to equation environments will get equation number.
- Adding colon (:) to equation environments will get equation number.
- Adding number with parenthesis, \( \text{eqref{eq:} } \), to equation environments will get equation number.
- Adding periods to equation environments will get equation number.

Examples:

1. Normal equation:
   \[ a + b + c = d \]

2. Numbered equation:
   \[ a + b + c = d \]
   \eqref{eq:x}

3. Unnumbered equation:
   \[ a + b + c = d \]

4. Examples:
   \[ a + b + c = d \]

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Epilog

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