1 LaTeX 2ε displayed math environments

text text text text text text

\[$a^2 + b^2 = c^2$ \]

text text text text text text

\begin{displaymath} $a^2 + b^2 = c^2$ \end{displaymath}

text text text text text text

\begin{equation} $a^2 + b^2 = c^2$ \end{equation} (1)

text text text text text text

\begin{eqnarray} $a^2 + b^2 = c^2$ \end{eqnarray} (deprecated) (2)

text text text text text text

$$ $a^2 + b^2 = c^2$ $$ (inside linenomath env)

2 amsmath displayed math environments

text

\begin{gather} (3)

$a_1 = b_1 + c_1$ (4)

$a_2 = b_2 + c_2 - d_2 + e_2$ (5)

\end{gather} (6)

text

\begin{multline} $a^2 + b^2 +$

$c^2 + d^2 = S$ \end{multline}

(extra equation number at the top) (7)

text

\begin{align} $a_1 = b_1 + c_1$ (8)

$a_2 = b_2 + c_2 - d_2 + e_2$ \end{align} (9)

text

\begin{alignat} $a_1 = b_1 + c_1$ $(note1)$ (10)

$a_2 = b_2 + c_2 - d_2 + e_2$ $(note2)$ \end{alignat} (11)

text

\begin{flalign} $x = y$ $X = Y$ (12)

$x' = y'$ $X' = Y'$ \end{flalign} (13)