1

\predisplaysize $[\langle dimen \rangle \text{ parameter}]$

TEX sets this parameter to the width of the line preceding a math display. TEX uses \predisplaysize to determine whether or not the display starts to the left of where the previous line ends, i.e., whether or not it visually overlaps the previous line. If there is overlap, it uses the \abovedisplayskip and \belowdisplayskip glue in setting the display; otherwise it uses the \abovedisplayshortskip and \belowdisplayshortskip glue. See pages 188–189 of The TEXbook for a more detailed explanation of this parameter.