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\displaywidth   [⟨*dimen*⟩ parameter]

This parameter specifies the maximum width that TeX allows for a math display. If TeX cannot fit the display into a space of this width, it sets an overfull hbox and complains. TeX sets the value of \displaywidth when it encounters the '$$' that starts the display. This initial value is \hsize (p. '\hsize') unless it's overridden by changes to the paragraph shape. See pages 188–189 of *The TeXbook* for a more detailed explanation of this parameter.