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\documentclass[11pt]{article}

\usepackage{amsmath}          % preloaded by amsart above
\usepackage{amssymb}

%===== END PREAMBLE =====
\begin{document}
\parindent 0pt

\begin{center} \bf \large Example 0
\end{center}

\emph{Inline math} The area  $A$  of a circle of radius  $r$  is  $A=\pi r^2$ .

Since to write this (see the .tex file) we used a dollar sign, how do
you get a dollar sign? Use  $\$,$  as: peaches cost  $\$1.27$  a pound.
\medskip

\emph{Display math} (unnumbered equatons):
\[
\int_0^{\infty} e^{-t^2} \, dt = \frac{\sqrt{\pi}}{2}.
\]

\emph{Display math} (numbered equatons):
\begin{equation}\label{bell-curve}
\int_0^{\infty} e^{-t^2} \, dt = \frac{\sqrt{\pi}}{2}.
\end{equation}
In the study of probability, this equation \eqref{bell-curve}
is vital.

\end{document}

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