## Example 0

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.

Display math (unnumbered equatons):

$$
\int_{0}^{\infty} e^{-t^{2}} d t=\frac{\sqrt{\pi}}{2}
$$

Display math (numbered equatons):

$$
\begin{equation*}
\int_{0}^{\infty} e^{-t^{2}} d t=\frac{\sqrt{\pi}}{2} \tag{1}
\end{equation*}
$$

In the study of probability, this equation (1) is vital.

