$$
\begin{align*}
& y(x)=\cos \left(\frac{n_{x} 2 \pi x}{L}\right) \\
& y(x)=\cos \left(\frac{n_{x} 2 \pi x}{L}\right) \tag{1}
\end{align*}
$$

You can refer to Eq. 1 by name in the source text. The backslash after the dot tells $\mathrm{LA}_{\mathrm{E}} \mathrm{X}$ not to interpret it as the end of a sentence. ( $\mathrm{LA}_{\mathrm{E}} \mathrm{X}$ leaves extra space after a period at the end of a sentence.)

