The line ends before.

$$
\begin{equation*}
f . x /=-\frac{\sin x}{x} \mathrm{~d} x \tag{1}
\end{equation*}
$$

The line doesn't end before the formula.

$$
\begin{equation*}
f . x /=-\frac{\sin x}{x} \mathrm{~d} x \tag{2}
\end{equation*}
$$

And the next line starts as usual with some text ...

