## Logarithm Examples with SimBraille

1. The natural $\log$ of $x$ is written
$\ln x$
:: : :
2. The $\log$ of x is written $\log x$
: : : : : :
3. The $\log$ base two of x is written $\log _{2} x$
: : : : : : :
4. The natural $\log$ of $x$ equals the $\log$ base $e$ of $x$ is written
$\ln x=\log _{e} x$
:: : : : : : : : : : : : :
5. The $\log$ of one thousand equals three is written $\log 1000=3$
: : :: : :\% :\%:: : : : : :
6. The natural $\log$ of the square root of $e$ equals one-half is written
$\ln \sqrt{e}=\frac{1}{2}$
: : : : : : : : : : : :
7. The log base three of five $x$ squared equals the log base three of five plus two log base three of $x$ is written

$$
\begin{aligned}
& \log _{3} 5 x^{2}=\log _{3} 5+2 \log _{3} x
\end{aligned}
$$

