

Use the graphing calculator to help you solve each inequality. Recall that you must set-up the system of equations needed first: $y_1 =$ and $y_2 =$. Also recall that we sketch what we expect the graphs of $y_1 =$ and $y_2 =$ to look like prior to using our calculator. (Round answers to 3 decimal places)

1. $\log_3(x+2) < 4$
2. $2e^x - 5 \leq x - 2$
3. $\ln x = 3^{x-1}$
4. Approximate using your calculator.
 - a. $\log_2 7$
 - b. $\ln 4$
 - c. $\log\left(\frac{3}{20}\right)$
 - d. $\frac{\ln 24}{\ln 5}$