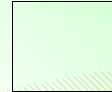


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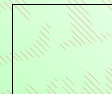


$\log_a \log_b x$



$$\left\{ \begin{array}{l} a > 1 \\ x_1 > x_2 > 0 \\ 0 < a < 1 \\ x_2 > x_1 > 0 \end{array} \right.$$

$\log_a \log_b x$



$$\left\{ \begin{array}{l} a > 1 \\ x_2 > x_1 > 0 \\ 0 < a < 1 \\ x_1 > x_2 > 0 \end{array} \right.$$

$$\log_a b = \frac{\log b}{\log a} = \frac{\log(b-1) + \log(a-1)}{\log(a-1)}$$