

• Logs

* $\log(\#) = 1$

Aim to get these the same

$$* \log x = \log_{10} x$$

$$* \log_0 (\text{anything}) = \text{undef. (error)}$$

$$* \log x + \log 2 = \log 2x$$

$$* \log_2 x + \log_3 2 = \log_2 x + \log_3 2$$

must be the same!

$$* \log m - \log n = \log \frac{m}{n}$$

$$* \log x^2 = 2 \log x$$

$$\left. \begin{array}{l} * \log 10 \\ \log_x x \\ \log_3 3 \end{array} \right\} = 1$$