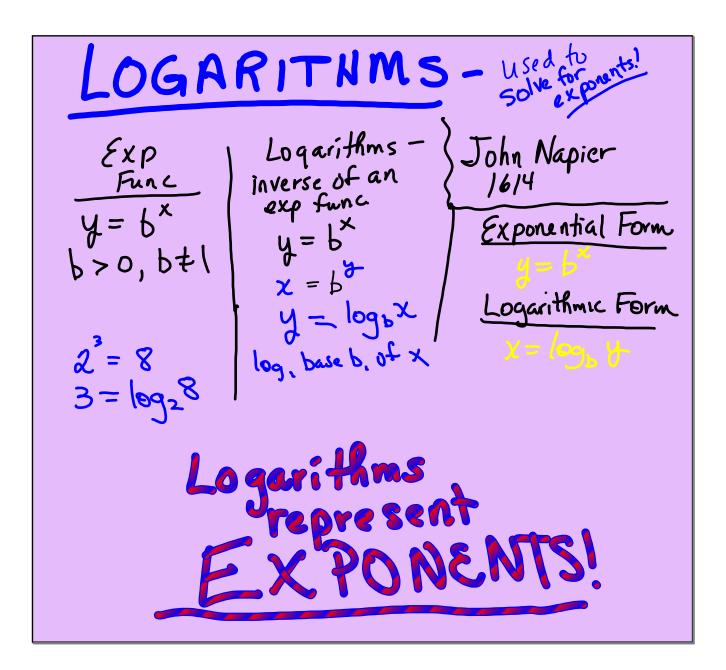


 $e = (1 + \frac{1}{n})^n \approx 2.718$ " Nature  $n=1 \left(1+\frac{1}{1}\right)^{2} = 2 \quad 0.25$   $n=2 \left(1+\frac{1}{2}\right)^{2} = 2.25 \quad 0.12$   $n=3 \left(1+\frac{1}{3}\right)^{3} = 2.37 \quad 0.01$   $n=4 \left(1+\frac{1}{3}\right)^{4} = 2.44 \quad 0.01$   $n=4 \left(1+\frac{1}{3}\right)^{4} = 2.44 \quad 0.01$ 



$$\frac{5^{3}}{3} = |25| \qquad \frac{E \text{ valuato.}}{\log_{6} 36 =} |_{0}g_{4} |_{0}^{2} = 2 \\
\log_{7} 19 = 2 \\
\sqrt{7^{2} = 49} \\
\log_{7} \sqrt{3^{1}} = \log_{7} 3^{1/5} = \frac{1}{5} \\
\log_{12} \frac{1}{144} = \log_{12} \frac{1}{12^{2}} = \log_{12} |2^{-2} = -2 \\
\log_{12} \frac{1}{144} = \log_{12} \frac{1}{12^{2}} = \log_{12} |2^{-2} = -2 \\
\log_{11} \sqrt[3]{\frac{1}{121}} = \log_{11} \sqrt[3]{\frac{1}{12}} = \log_{11} \sqrt[3]{$$

$$\begin{array}{c|c} \hline Common \ Log s \\ \hline log_{n} X = \ log X \\ \hline log_{n} X = \ log X \\ \hline log_{n} 1000 \\ - \ log_{n} 10^{3} = 3 \\ \hline log 0.01 \\ \hline log_{n} 10^{2} = -2 \\ \hline log e^{8} = 8 \\ \hline ln e^{2.63} = 2.63 \\ e^{ln} 17 \end{array}$$

