

- $\log 1 = 0.$
- $\log_a a = 1.$
- $\log ab = \log a + \log b.$
- $\log a/b = \log a - \log b.$
- $\log a^m = m \log a.$
- $\log_b a = (\log a)/(\log b)$
- $a^{\log_a x} = x.$