$2^4 = 1.2.2.2.2 = 16$

$2^{-4} = 1.\frac{1}{2}.\frac{1}{2}.\frac{1}{2}.\frac{1}{2} = \frac{1}{16}$

$3^{-3} = \frac{1}{3^3} = \frac{1}{27}$

$(-2)^{-3} = \frac{1}{(-2)^3} = \frac{1}{(-2)(-2)(-2)} = -\frac{1}{8}$

$\left(\frac{5}{8}\right)^{-2} = \frac{1}{\left(\frac{5}{8}\right)^2} = \frac{1}{\left(\frac{25}{64}\right)} = \frac{64}{25} = \left(\frac{8}{5}\right)^2$

LOGARITMOS

$\log_2(8) = 3 \iff 2^3 = 8$

$\log_3(81) = 4 \iff 3^4 = 81$

$\log_5(25) = 2 \iff 5^2 = 25$

$\log_b(a) = c \iff b^c = a$

$\log_4(64) = x$
$4^x = 64 = 4^3$

$\log_4(32) = x$

$\log_6(36) = 2$

$\log_3(27) = 3$

$\log_4(4) = 1$

$\log_5(1) = 0$

$\log_3\left(\frac{1}{9}\right) = -2$

$3^{-2} = \frac{1}{3.3} = \frac{1}{9}$

LOG NATURAL

$\frac{d}{dx}[\ln x] = \frac{1}{x}$

$\ln x = \log_e x$