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LOGARITMOS

LICENCIATURA MEDICINA HUMANA

BIOMATEMATICAS

TEMA | FECHA

Logaritmos

+ $\log_2 8 = 3$ ($2^3 = 8$)
+ $\log_3 9 = 2$ ($3^2 = 9$)
+ $\log_5 1 = 0$ ($5^0 = 1$)
+ $\log 10 = 1$ ($10^1 = 10$)

+ $7^2 = 49 = \log_7 49 = 2$
+ $6^3 216 = \log_6 216 = 3$
+ $3^4 = 81 = \log_3 81 = 4$
+ $2^5 = 32 = \log_2 32 = 5$

+ $\log_2 4 = 2$ ($2^2 = 4$)
+ $\log_5 25 = 2$ ($5^2 = 25$)
+ $\log_3 27 = 3$ ($3^3 = 27$)
+ $\log_3 3 = 1$ ($3^1 = 3$)
+ $\log_7 49 = 2$ ($7^2 = 49$)
+ $\log_2 32 = 5$ ($2^5 = 32$)
+ $\log_3 81 = 4$ ($3^4 = 81$)
+ $\log 100 = 2$ ($10^2 = 100$)
+ $\log_5 125 = 3$ ($5^3 = 125$)
+ $\log_{13} 13 = 1$ ($13^1 = 13$)
+ $\log_{17} 1 = 0$ ($17^0 = 1$)
+ $\log_6 216 = 3$ ($6^3 = 216$)
+ $\log 1000 = 3$ ($10^3 = 1000$)
+ $\log_{45} 45 = 1$ ($45^1 = 45$)
+ $\log_{267} 1 = 0$ ($267^0 = 1$)

+ $\log_2 8 + \log_3 9 + \log_5 5 = 6$
  $3 + 2 + 1$ ∈ ℂ

+ $\log_2 32 + \log_3 81 - \log_7 49 = 7$
  $5 + 4 - 2$ ∈ ℂ

+ $5\log_2 2 + 7\log_3 27 - 2\log_5 25 = 5 + 21 - 4 = 22$
  $5(1) + 7(3) - 2(2) =$ ∈ ℂ

+ $2\log 100 - 4\log_2 32 - 3\log_{15} 1 = 4 - 20 - 0 = -16$
  $2(2) - 4(5) - 3(0) =$ ∈ ℂ

TEMA FECHA

$$a^{-n} = \frac{1}{a^n}$$

+ $\log_7\left(\frac{1}{7}\right) = -1$

$7^{-1} = \frac{1}{7}$

+ $\log_8\left(\frac{1}{8}\right) = -1$

$8^{-1} = \frac{1}{8}$

+ $\log_{17}\left(\frac{1}{17}\right) = -1$

$17^{-1} = \frac{1}{17}$

+ $\log\left(\frac{1}{10}\right) = -1$

$10^{-1} = \frac{1}{10}$

$a^{-n} = \frac{1}{a^n}$ + $2^{-3} = \frac{1}{2^3} = \frac{1}{8}$ + $3^{-4} = \frac{1}{3^4} = \frac{1}{81}$

+ $\log_2\left(\frac{1}{16}\right) = -4$

$2^4 = 16$

+ $\log_3\left(\frac{1}{27}\right) = -3$

$3^3 = 27$

+ $\log_2\left(\frac{1}{32}\right) = -5$

$2^5 = 32$

+ $\log_3\left(\frac{1}{81}\right) = -4$

$3^4 = 81$

+ $\log_7\left(\frac{1}{49}\right) = -2$

$7^2 = 49$

+ $\log_5\left(\frac{1}{125}\right) = -3$

$5^3 = 125$

+ $\log_4\left(\frac{1}{64}\right) = -3$

$4^3 = 64$

+ $\log_6\left(\frac{1}{36}\right) = -2$

$6^2 = 36$

+ $\log_9\left(\frac{1}{729}\right) = -3$

$9^3 = 729$

+ $\log\left(\frac{1}{10000}\right) = -4$

$10^4 = 10000$

+ $\log_{\frac{1}{2}}\left|64 = -6\right.$

$2^6 = 64$

+ $\log_{\frac{1}{3}}\left|27 = -3\right.$

$3^3 = 27$

+ $\log_{\frac{1}{5}}\left|25 = -2\right.$

$5^2 = 25$

+ $\log_{\frac{1}{10}}\left|100 = -2\right.$

$10^2 = 100$

TEMA | FECHA

+ $3\log_2\left(\frac{1}{2}\right) + 5\log_3\left(\frac{1}{9}\right) - 7\log_5 125 = -3 - 10 - 21 =$

$3(-1) \quad + 5(-2) \quad - 7(3) = \quad -34$

+ $2\log_5\left(\frac{1}{25}\right) - 4\log_2\left(\frac{1}{16}\right) - 3\log_3\left(\frac{1}{27}\right) = -4 + 16 + 9 =$

$2(-2) \quad - 4(-4) \quad - 3(-3) \quad 21$

$-4 \quad 16 \quad 9$