

LOGARITMOS BIOMATEMATICAS

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$$5 \log_2 2 + 7 \log_3 27 - 2 \log_5 25 = 5(1) + 7(3) + 2(2)$$

$$5 + 21 - 4 = \underline{22}$$

$$2 \log 100 - 4 \log_2 32 - 3 \log_5 125 = 2(2) - 4(5) - 3(3)$$

$$4 + 25 + 9 = -16$$

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

$$\log_2 \left(\frac{1}{16}\right) = \log_2 \left(\frac{1}{2^4}\right) = \log_2 (2^{-4})$$

$$= -4$$

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

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

$$= -3$$

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

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

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

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

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

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

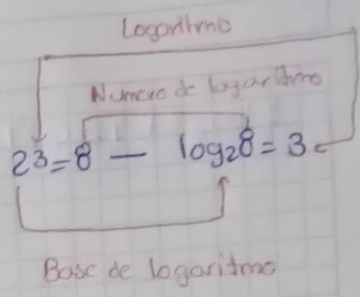
$$\log_7 \left(\frac{1}{49}\right) = -2$$

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

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

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

Logaritmos



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

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

- $\log_2 8 + \log_3 9 + \log_5 5 = 3 + 2 + 1 = 6$
- $\log_2 32 + \log_3 81 - \log_7 49 = 5 + 4 - 2 = 7$

$$\log\left(\frac{1}{7}\right) 343 = -3$$

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

$$\log\left(\frac{1}{2}\right) 64 = -6$$

$$\log\left(\frac{1}{10}\right) 100 = -2$$

$$\log\left(\frac{1}{5}\right) 25 = -2$$

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

$$2(-2) - 4(-4) - 3(-3)$$

$$-4 + 16 + 9$$

$$-4 + 25 = \underline{21}$$