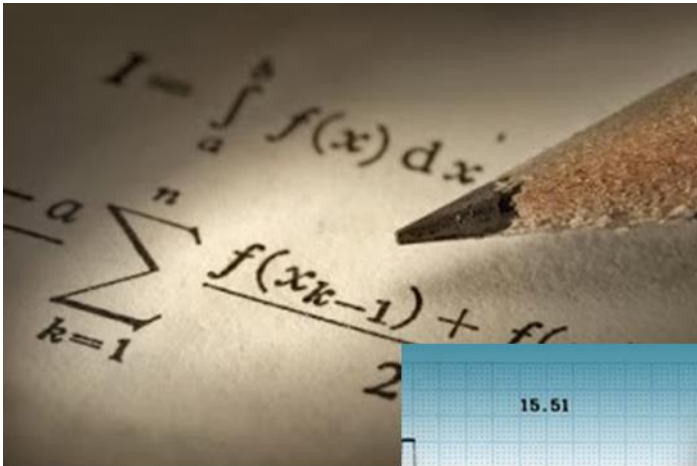


Universidad del sureste.



Biomatematicas “logaritmos”.

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logaritmos

①

$$7^2 = 49 \quad \log_7 49 = 2$$

$$6^3 = 216 \quad \log_6 216 = 3$$

$$3^4 = 81 \quad \log_3 81 = 4$$

$$2^5 = 32 \quad \log_2 32 = 5$$

②

$$\log_2 8 + \log_3 9 + \log_5 5$$

$$3 + 2 + 1 = 6$$

$$* \log_2 32 + \log_3 81 - \log_7 49$$

$$5 + 4 - 2 = 7$$

③

$$5 \log_2 2 + 7 \log_3 27 - 2 \log_5 25$$

$$5(1) + 7(3) - 2(2)$$

$$5 + 21 - 4 = 22$$

$$* 2 \log 100 - 4 \log_2 32 - 3 \log_{15} 1$$

$$2(2) - 4(5) - 3(0)$$

$$4 - 20 - 0$$

$$-16$$

$$\textcircled{4} \log_8 \left(\frac{1}{8} \right) = -1$$

$$\log_2 \left(\frac{1}{17} \right) = -1$$

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

⑤

$$\log_2 \left(\frac{1}{32} \right) = \log_2 \left(\frac{1}{2^5} \right) = \log_2 (2^{-5}) = -5$$

$$\log_3 \left(\frac{1}{81} \right) = \log_3 \left(\frac{1}{3^4} \right) = \log_3 (3^{-4}) = -4$$

$$\log_7 \left(\frac{1}{49} \right) = \log_7 \left(\frac{1}{7^2} \right) = \log_7 (7^{-2}) = -2$$

$$\log_5 \left(\frac{1}{125} \right) = \log_5 \left(\frac{1}{5^3} \right) = \log_5 (5^{-3}) = -3$$

$$\log_4 \left(\frac{1}{64} \right) = \log_4 \left(\frac{1}{4^3} \right) = \log_4 (4^{-3}) = -3$$

$$\log_6 \left(\frac{1}{36} \right) = \log_6 \left(\frac{1}{6^2} \right) = \log_6 (6^{-2}) = -2$$

$$\log_9 \left(\frac{1}{729} \right) = \log_9 \left(\frac{1}{9^3} \right) = \log_9 (9^{-3}) = -3$$

$$\log \left(\frac{1}{10000} \right) = \hat{c} ?$$