



BIOMATEMATICAS

CATEDRATICO:

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ALUMNA:

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ESPECIALIDAD:

MEDICINA HUMANA I

SEMESTRE:

SEGUNDO

JUNIO 2021

Tarea 3:

$$1) \log_6 (1/36) \cdot \log_6 (6^{-2}) = -2$$

$$2) \log_9 (1/729) \cdot \log_3 (3^{-6}) = -3$$

$$3) \log (1/10,000) \cdot \log_{10} (10^{-4}) = -4$$

$$4) \log (1/7) 343 = \log_{7^{-1}} (7^3) = -3$$

$$5) \log (1/2) 64 = \log_{2^{-1}} (2^6) = -6$$

$$6) \log (1/5) 25 = \log_{5^{-1}} (5^2) = -2$$

$$7) \log (1/3) 27 = \log_{3^{-1}} (3^3) = -3$$

$$8) \log (1/100) 100 = \log_{10^{-1}} (10^2) = -2$$

$$9) 3 \log (1/2) + 5 \log_3 (1/9) - 7 \log_5 (125) = \text{Indefinido}$$

$$3 \log \frac{1}{2} (5 \log_3 (3^{-2}) - 7 \log_5 (5^3))$$

$$3 \log \frac{1}{2} (5 \times (-2) - 7 \times 3)$$

$$3 \log \frac{1}{2} (-10 - 21)$$

$$3 \log \frac{1}{2} (-31)$$

$$10) 2 \log (1/125) - 4 \log_2 (1/10) - 3 \log_3 (1/24) = -1,27974$$

$$2 \log_{5^{-1}} (-4 \log_2 (10^{-1}) - 3 \log_3 (\frac{1}{24}))$$

$$2 \log_{5^{-1}} (-4 \log_2 (10^{-1}) - 3 \log_3 (24^{-1}))$$

$$2 \log_{5^{-1}} (-4 \times (-\log_2 (10)) - 3 \times (-\log_3 (24)))$$

$$2 \times (-\frac{1}{3} \times \log_5 (4 \log_2 (10) + 3 \log_3 (24)))$$

$$-\frac{2}{3} \times \log_5 (4 \log_2 (10) + 3 \log_3 (24))$$

$$\approx -1,27974$$