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**LICENCIATURA: MEDICINA HUMANA**

**MATERIA: BIOMATEMATICAS**

# Tarea 3 Álgebra Matemáticas

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

$$6^x = 1/36$$

$$6^x = \frac{1}{6^2}$$

$$6^x = 6^{-2}$$

$$x = -2$$

$$2) \log_9 (1/729) = 9^{-3} = 729$$

$$9^x = 1/729$$

$$9^x = 1/9^3$$

$$9^x = 9^{-3}$$

$$x = -3$$

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

$$10^x = 1/10,000$$

$$10^x = 1/10^3$$

$$10^x = 10^{-3}$$

$$4) \log_{1/3} 343 = -3$$

$$\frac{\log 343}{\log (1/3)} = -3$$

$$5) \log\left(\frac{1}{2}\right) 64 =$$

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

$$6) \log\left(\frac{1}{5}\right) 25 =$$

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

$$7) \log\left(\frac{1}{3}\right) 27 =$$

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

$$8) \log\left(\frac{1}{10}\right) 100 =$$

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

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

$$\frac{\log\left(\frac{1}{2}\right)}{3 \log 2} + \frac{\log\left(\frac{1}{9}\right)}{5 \log 3} - \frac{\log(125)}{7 \log 5} = -7$$

$$10) 2 \log_5 (1/25) - 4 \log_2 (1/10) - 3 \log_3 (1/27)$$

$$\frac{\log (1/25)}{2 \log 5} - \frac{\log (1/10)}{4 \log 2} - \frac{\log (1/27)}{3 \log 3} = 1$$