

EJERCICIO MIBE3306:

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$$\frac{\log_2 \sqrt{8} - \log_2 \frac{1}{2} - \log_2 \sqrt[3]{2}}{\log_2 \sqrt{2}} =$$

$$= \frac{\log_2 8^{1/2} - \log_2 2^{-1} - \log_2 2^{1/6}}{\log_2 2^{1/2}} =$$

$$= \frac{\frac{1}{2} \log_2 8 - \log_2 2^{-1} - \log_2 2^{1/6}}{\log_2 2^{1/2}} =$$

$$= \frac{\frac{1}{2} \cdot \log_2 2^3 - (-1) \cdot \log_2 2 - \frac{1}{6} \log_2 2}{\frac{1}{2} \log_2 2} =$$

$$= \frac{\frac{1}{2} \cdot 3 \cdot \log_2 2 + 1 \log_2 2 - \frac{1}{6} \log_2 2}{\frac{1}{2} \log_2 2} =$$

$$= \frac{\frac{3}{2} + 1 - \frac{1}{6}}{\frac{1}{2}} = \frac{\frac{9+6-1}{6}}{\frac{1}{2}} = \frac{\frac{14}{6}}{\frac{1}{2}} = \frac{28}{6} = \frac{14}{3}$$