

Mivel $\log z = b$, azt jelenti, hogy $z = a^b$, azért rendre

$$\log^{\frac{2}{3}} \log^{\frac{1}{8}} \log^{\frac{16}{81}} x = \left(\frac{3}{4}\right)^0 = 1,$$

$$\log^{\frac{1}{8}} \log^{\frac{16}{81}} x = \left(\frac{2}{3}\right)^1 = \frac{2}{3},$$

$$\log^{\frac{16}{81}} x = \left(\frac{1}{8}\right)^{\frac{2}{3}} = \left(\sqrt[3]{\frac{1}{8}}\right)^2 = \frac{1}{4},$$

$$x = \left(\frac{16}{81}\right)^{\frac{1}{4}} = \frac{2}{3}.$$

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