

$$\lg_r^r = \frac{1}{r} \lg_r^r = 0,1 \rightarrow \lg_r^r = 1,4$$

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$$\lg_{1r}^4 = \frac{1}{\lg_4^{1r}} = \frac{1}{\lg_4^r + \lg_4^4} = \frac{1}{\frac{1}{\lg_r^r} + 1} = \frac{1}{\frac{1}{2} + 1} = \frac{1r}{1n}$$