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Logaritmlag nr 3

$$3 = \frac{15}{5}$$

$$\log_{15} 9 = \log_{15} 3^2 = 2 \cdot \log_{15} 3 = 2 \cdot \log_{15} \frac{15}{5}$$

Logaritmlag nr 2

$$\begin{aligned} &= 2 \left( \underbrace{\log_{15} 15}_{=1} - \log_{15} 5 \right) = \left\{ \log_{15} 5 = a \right\} = \\ &= 2(1 - a) = 2 - 2a \end{aligned}$$

Svar:  $2 - 2a$