

$$\log_u 16 = \log_u (u \cdot u) = \log_u u + \log_u u = 2$$

$$\log_5 \frac{1}{25} = -\log_5 25 = -2$$

$$\log_{25} 5 = \log_{25} \sqrt{25} = \frac{1}{2} \log_{25} 25 = \frac{1}{2} \cdot 1$$

$$\log_3 \sqrt{27} = \frac{1}{2} \log_3 27 = \frac{1}{2} \log_3 3^3 = \frac{1}{2} \cdot 3 = \frac{3}{2}$$

$$\log_2 12 - \log_2 3 = \log_2 \frac{12}{3} = \log_2 4 = 2$$

$$\log_6 (2 + \log_6 3) = \log_6 ((2 \cdot 3)) = \log_6 (36) = 2$$

$$e^{\ln 5} = 5$$

$$\frac{\log_2 225}{\log_2 15} = \log_{15} 225 = 2$$

$$\log_u 32 + \log_{0.1} 10 = \log_u (16 \cdot 2) + \log_{10} \frac{1}{10} =$$

$$= 2 + \log_u (2) + (-1) = 1 + \frac{1}{2} = \frac{3}{2}$$

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$$9^{\log_3 \sqrt{5}} = (3 \cdot 3)^{\log_3 \sqrt{5}} = \\ = 3^{\log_3 \sqrt{5}} \cdot 3^{\log_3 \sqrt{5}} = \\ = \sqrt{5} \cdot \sqrt{5} = 5$$