Simple Definition of Logs

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1 Defining logs simple

1.1 Exponating rules

$$a^x \cdot a^y = a^{x+y} \tag{1}$$

$$a^x \cdot a^{-x} = a^x \cdot \frac{1}{a^x} = 1 = a^{x-x} = a^0 \tag{2}$$