$$\log(x \times y) = \log(x) + \log(y)$$

$$\log(x \times y) = \log(x) + \log(y)$$
$$\log\left(\frac{x}{y}\right) = \log(x) - \log(y)$$

$$\log(x^a) = a \times \log(x)$$

$$\log(x^{a}) = a \times \log(x)$$

$$\log_{z}(x) = \frac{\log_{y}(x)}{\log_{y}(z)}$$