

Log Laws (A)

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

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

$$\log(x^n) = n\log(x)$$

Simplify $\log(6^4) = 4\log(6)$

Simplify $\log(5) + \log(9) = \log(45)$

Simplify $\log(3^3) = 3\log(3)$

Simplify $\log(24) - \log(8) = \log\left(\frac{24}{8}\right) = \log(3)$