

# Expanding Logarithms

(Ex) Expand using Log Properties from Lesson 7.1.2 on 12/4

$$\log kx^5$$
$$\log k + \log x^5$$

exponent moves to front

$$\log k + 5\log x$$

$$\log AB$$

← multiplied together

$$\log A + \log B$$

← expand to addition

(Ex) Expand using Log Properties

$$\log \frac{x}{y^4}$$
$$\log x - \log y^4$$

exponent moves to front

$$\log \frac{A}{B}$$

← divided

$$\log A - \log B$$

← expand to subtraction