

## Condensing Logarithmic Expressions

WS #1

$$\log_3 2 + \log_3 4$$

Answer: \_\_\_\_\_

$$\log_2 12 - \log_2 4$$

Answer: \_\_\_\_\_

$$\log_7 6 + \log_7 4 - \log_7 8$$

Answer: \_\_\_\_\_

$$\log_3 6 + \log_3 7 - \log_3 3 - \log_3 6$$

Answer: \_\_\_\_\_

$$\frac{1}{3} \log_4 3 + 2 \log_4 5$$

Answer: \_\_\_\_\_

$$5 \log_5 2 - 2 \log_5 4$$

Answer: \_\_\_\_\_

$$\frac{\log_{10} 2}{2} + \frac{\log_{10} 4}{3}$$

Answer: \_\_\_\_\_

$$4 \log_8 12 - 4 \log_8 4$$

Answer: \_\_\_\_\_