

## Logarithmic & Exponential Worksheets

Condense each logarithm.

$$3 \log_3 2 - \frac{1}{2} \log_3 5$$

$$\log_2 5 + \frac{\log_2 6}{2} + \frac{\log_2 10}{2}$$

$$\frac{\log_3 r}{5} + \frac{\log_3 s}{5} + \frac{\log_3 t}{5}$$

$$\log 2 + \frac{1}{2} \log 25 + 2 \log 3$$

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Condense each logarithm.

$$3 \log_3 2 - \frac{1}{2} \log_3 5$$

$$= \log_3 \frac{2^3}{\sqrt{5}}$$

$$\log_2 5 + \frac{\log_2 6}{2} + \frac{\log_2 10}{2}$$

$$= \log_2 5\sqrt{60}$$

$$\frac{\log_3 r}{5} + \frac{\log_3 s}{5} + \frac{\log_3 t}{5}$$

$$= \log_3 (rst)^{\frac{1}{5}}$$

$$\log 2 + \frac{1}{2} \log 25 + 2 \log 3$$

$$= \log \frac{10}{3^2}$$