

Name _____

Date _____

<p>1. Condense: $\ln 3 + \ln x - \ln y - 2 \ln z$ $\ln 3 + \ln x - \ln y - \ln z^2$ $\ln\left(\frac{3x}{yz^2}\right)$</p>	<p>2. Condense: $\ln 5 + \frac{1}{2} \ln x + 2 \ln z$</p>
<p>3. Condense: $\log_5 9 + \frac{1}{2} \log_5 k + 2 \log_5 p$ $\log_5 9 + \log_5 k^{1/2} + \log_5 p^2$ $\log_5 9 + \log_5 \sqrt{k} + \log_5 p^2$ $\log_5 (9p^2 \sqrt{k})$</p> <p style="text-align: right;">$9\sqrt{k}p^2$</p>	<p>4. Condense: $\ln 4 + 3 \ln x - 5 \ln y$</p>
<p>5. Condense: $\log_3 a - 2 \log_3 b - 3 \log_3 c$</p>	<p>6. Condense: $\log x + 2 \log y + 3 \log z - \log 5$</p>
<p>7. Condense: $2 \log_3 x + \log_3 y$</p>	<p>8. Condense: $\log 5 + \log x - \log y$</p>
<p>9. Condense: $3 \log_3 x - \log_3 7 - 4 \log_3 y$</p>	<p>10. Condense: $3 \log_5 3 + 2 \log_5 a - \log_5 b - 2 \log_5 c$</p>

