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1. Use properties of logarithms to expand each logarithmic expression as much as possible. Where possible, evaluate logarithmic expressions without using a calculator.

(a) $\log_7(7x)$

$$\log_7(7x) = \log_7(x)$$

$$1 + \log_7 x$$

(b) $\ln\left(\frac{e^4}{8}\right)$

$$\ln(e^4) - \ln(8)$$

$$4\ln(e) - \ln 8$$

$$4 - \ln 8$$

(c) $\log_6 x^{-6}$

$$-6 \log_6 x$$

(d) $\ln \sqrt{2x}$

$$\ln(x)^{\frac{1}{2}}$$

$$\frac{1}{2} \ln(x)$$

$$\frac{1}{2} [\ln x + \ln x]$$

$$\frac{1}{2} [1 + \ln x]$$

$$\frac{1}{2} + \frac{1}{2} \ln(x)$$

(e) $\log_5 \sqrt[3]{\frac{10x}{25}}$

$$\log_5 \left(\frac{10x}{25} \right)^{\frac{1}{3}}$$

$$\frac{1}{3} \log_5 \left(\frac{10x}{25} \right)$$

$$\frac{1}{3} [\log_5 x^2 + \log_5 y - \log_5 2.5]$$

$$\frac{1}{3} [2 \log_5 x + \log_5 y - 2]$$

$$\frac{2}{3} \log_5 x + \frac{1}{3} \log_5 y - \frac{2}{3}$$

(f) $\ln(x+1)$

$$\ln(x+1)$$

2. Use properties of logarithms to condense each logarithmic expression. Write the expression as a single logarithm whose coefficient is 1. Where possible, evaluate logarithmic expressions without using a calculator.

(a) $\log 5 + \log 2$

$$\log(5 \cdot 2)$$

$$\log 10$$

$$1$$

(b) $\log_4 96 - \log_4 3$

$$\log_4 \left(\frac{96}{3} \right)$$

$$\log_4 32$$

$$5$$

(c) $2 \log_4 x + 2 \log_4 y$

$$\log_4 x^2 + \log_4 y^2$$

$$\log_4 (x^2 y^2)$$

(d) $8 \ln(x+9) - 4 \ln(x)$

$$\ln(x+9)^8 - \ln(x)^4$$

$$\ln \left(\frac{(x+9)^8}{x^4} \right)$$

$$\ln \frac{(x+9)^8}{x^4}$$

(e) $\frac{1}{3} (\log_3 x + \log_3 y) - 2 \log_3 (x+1)$

$$\frac{1}{3} (\log_3 (xy)) - \log_3 (x+1)^2$$

$$\log_3 (xy)^{\frac{1}{3}} - \log_3 (x+1)^2$$

$$\log_3 \frac{\sqrt[3]{xy}}{(x+1)^2}$$

(f) $x \log 10^x$

$$\log 10^{x^2}$$

$$x^2$$

Kuta Software Expanding And Condensing Logarithms

Clifford Lane



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