

**Properties of Logarithms****Condense each expression to a single logarithm.**

1)  $4 \log_9 10 - 6 \log_9 3$

$$\log_9 \frac{10^4}{3^6}$$

3)  $4 \log_9 7 + 24 \log_9 10$

$$\log_9 (10^{24} \cdot 7^4)$$

5)  $\log_5 x + \log_5 y + 4 \log_5 z$

$$\log_5 (xyz^4)$$

7)  $4 \log_5 x - 24 \log_5 y$

$$\log_5 \frac{x^4}{y^{24}}$$

9)  $2 \log_3 x + 5 \log_3 y$

$$\log_3 (y^5 x^2)$$

**Expand each logarithm.**

11)  $\log_4 (xy^2)^2$

$$2 \log_4 x + 4 \log_4 y$$

13)  $\log_4 \frac{a^5}{b^5}$

$$5 \log_4 a - 5 \log_4 b$$

15)  $\log_7 (12 \cdot 5^4)^3$

$$3 \log_7 12 + 12 \log_7 5$$

17)  $\log_4 (x \cdot y \cdot z^4)$

$$\log_4 x + \log_4 y + 4 \log_4 z$$

19)  $\log \frac{3^2}{5^2}$

$$2 \log 3 - 2 \log 5$$

2)  $12 \log_7 10 - 2 \log_7 11$

$$\log_7 \frac{10^{12}}{11^2}$$

4)  $5 \log_2 x + 10 \log_2 y$

$$\log_2 (y^{10} x^5)$$

6)  $\ln a + \ln b + 3 \ln c$

$$\ln (bac^3)$$

8)  $2 \log_6 u - 8 \log_6 v$

$$\log_6 \frac{u^2}{v^8}$$

10)  $4 \log_8 x - 4 \log_8 y$

$$\log_8 \frac{x^4}{y^4}$$

12)  $\log_5 (x^2 \cdot y)^6$

$$12 \log_5 x + 6 \log_5 y$$

14)  $\log_5 \frac{x^6}{y^5}$

$$6 \log_5 x - 5 \log_5 y$$

16)  $\log (uv^5)^3$

$$3 \log u + 15 \log v$$

18)  $\log_5 (xy^6)^5$

$$5 \log_5 x + 30 \log_5 y$$

20)  $\log_3 (xy^6)^6$

$$6 \log_3 x + 36 \log_3 y$$

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**David S. Kahn**



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