

Properties of Logarithms

Condense each expression to a single logarithm.

1) $4 \log_3 10 - 6 \log_3 3$

$$\log_3 \frac{10^4}{3^6}$$

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) $4 \log_3 x - 24 \log_3 y$

$$\log_3 \frac{x^4}{y^{24}}$$

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) $\log_7 (12 \cdot 5^4)^2$

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

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) $\log_3 \frac{x^6}{y^2}$

$$6 \log_3 x - 5 \log_3 y$$

16) $\log (uv^2)^3$

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

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

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

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

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

Algebra Joke Worksheets Logarithms

David S. Kahn

Algebra Joke Worksheets Logarithms:

Teaching Mathematics in Secondary and Middle School James S. Cangelosi,1992 *Video Source Book* ,2008

Attacking Problems in Logarithms and Exponential Functions David S. Kahn,2015-10-21 Concise review of what high school and beginning college students need to know to solve problems in logarithms and exponential functions Presents rigorously tested examples and coherent explanations in an easy to follow format 2015 edition Five-figure Logarithmic and Other Tables Frank Castle,1975

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