Properties of Logarithms

Condense each expression to a single logarithm.

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

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

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

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

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

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

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

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

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

$\log_5 \left(yxz^4\right)$

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

$\ln \left(bac^3\right)$

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

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

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

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

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

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

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

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

Expand each logarithm.

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

$2\log_4 x + 4\log_4 y$

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

$12\log_5 x + 6\log_5 y$

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

$5\log_4 a - 5\log_4 b$

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

$6\log_5 x - 5\log_5 y$

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

$3\log_7 12 + 12\log_7 5$

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

$3\log u + 15\log v$

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

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

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

$5\log_5 x + 30\log_5 y$

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

$2\log 3 - 2\log 5$

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

$6\log_3 x + 36\log_3 y$

Practice 8 4 Properties Of Logarithms

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