

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

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

Practice 8 4 Properties Of Logarithms Answer Key

Arthur Lee Sparkes



Practice 8 4 Properties Of Logarithms Answer Key:

A Tester's Guide to .NET Programming Joe Sweeney, Randal Root, 2006-11-21 A Tester's Guide to .NET Programming focuses solely on applied programming techniques for testers. You will learn how to write simple automated tests enabling you to test tools and utilities. You will also learn about the important concepts driving modern programming today like multitier applications and object oriented programming. More businesses are adopting .NET technologies and this book will equip you to assess software robustness and performance. Whether you're an experienced programmer who's unfamiliar with testing concepts or you're an experienced tester versed in VB .NET and C#, the included real world tips and example code will help you start your projects. Also included are review questions and hands on exercises to help you retain knowledge. Additionally, the book features examples and quick language tutorials for both C# and VB .NET.

Precalculus Cynthia Y. Young, 2023-05-16 Cynthia Young's Precalculus 4th edition helps students take the guesswork out of studying by offering them an easy to read and clear roadmap that tells them what to do, how to do it, and whether they did it right. With this revision, the author focuses on the most difficult topics in precalculus, bringing clarity to challenging learning objectives.

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construction and maintenance of civil engineering structures and infrastructure facilities *An Introduction to Wavelets and Other Filtering Methods in Finance and Economics* Ramazan Gençay, Faruk Selçuk, Brandon J. Whittecher, 2001-10-12

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