

LOGARITHMIC & EXPONENTIAL EQUATIONS *Review!*

LOGARITHMIC EQUATIONS

1. $\log_2(x+13) = \log_2(3-x)$

$$x+13 = 3-x$$

$$2x = -10$$

$$\boxed{x = \{-5\}}$$

2. $\log_2(n^2+13) = \log_2(n-1) + \log_2(n+3)$

$$\log_2(n^2+13) = \log_2(n-1)(n+3)$$

$$n^2+13 = n^2+2n-3$$

$$16 = 2n$$

$$\boxed{n = \{8\}}$$

3. $2 \cdot \ln(a+3) = \frac{1}{4} \cdot \ln 16 + \ln(a+7)$

$$\ln(a+3)^2 = \ln 16^{1/4} + \ln(a+7)$$

$$\ln(a^2+6a+9) = \ln(2a+14)$$

$$a^2+6a+9 = 2a+14$$

$$a^2+4a-5 = 0$$

$$(a+5)(a-1) = 0$$

$$a = -5, 1$$

$$\boxed{a = \{1\}}$$

4. $\log(3c+4) - \log(c-6) = \log(c+6)$

$$\log \frac{3c+4}{c-6} = \log c+6$$

$$\frac{3c+4}{c-6} = c+6$$

$$3c+4 = c^2-36$$

$$0 = c^2-3c-40$$

$$0 = (c-8)(c+5) \quad c = -5, 8$$

$$\boxed{c = \{8\}}$$

5. $\log_2(5v+23) - 9 = -2$

$$\log_2(5v+23) = 7$$

$$2^7 = 5v+23$$

$$128 = 5v+23$$

$$105 = 5v$$

$$\boxed{v = \{21\}}$$

6. $\log_4(p+5) - \log_4(p-2) = \frac{1}{2}$

$$\log_4 \frac{p+5}{p-2} = \frac{1}{2}$$

$$16^{1/2} = \frac{p+5}{p-2}$$

$$4 = \frac{p+5}{p-2}$$

$$4p-8 = p+5$$

$$3p = 13$$

$$\boxed{p = \{13/3\}}$$

7. $\ln(r+1) + 3 \cdot \ln 2 = 7$

$$\ln(r+1) + \ln 2^3 = 7$$

$$\ln_e(8r+8) = 7$$

$$e^7 = 8r+8$$

$$1096.63 = 8r+8$$

$$1088.63 = 8r$$

$$\boxed{r = \{136.08\}}$$

8. $\frac{1}{3} \cdot \log_9 64 + 2 \cdot \log_9 n = 2$

$$\log_9 64^{1/3} + \log_9 n^2 = 2$$

$$\log_9 4n^2 = 2$$

$$4n^2 = 81$$

$$n^2 = 81/4$$

$$n = -9/2, 9/2$$

$$\boxed{n = \{9/2\}}$$

Exponential And Logarithmic Equations Worksheet

Math Bits

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solve different problems with them The authors give the readers the opportunity to test their understanding of the topics discussed by exposing them to 114 carefully chosen problems whose full solutions can be found at the end of the book

Logarithmic and Exponential Functions (IGCSE Math) Lee Jun Cai, Confused about the various concepts on Logarithmic and Exponential Functions taught in school or simply want more practice questions This book on Logarithmic and Exponential Functions seeks to offer a condensed version of what you need to know for your journey in IGCSE Mathematics alongside with detailed worked examples and extra practice questions Tips on certain question types are provided to aid in smoothing the working process when dealing with them **Exercises of Logarithms and Exponentials** Simone Malacrida, 2023-04-22 In this book exercises are carried out regarding the following mathematical topics logarithmic functions and properties exponential functions and properties logarithmic and exponential equations and inequalities Initial theoretical hints are also presented to make the performance of the exercises understood Jeremematics Logarithms & Exponents Jeremy Martin, 2020-12-10 Jeremematics Exponents Logarithms focuses on high school Exponents Jeremematics Exponents Logarithms assumes that you have a basic background knowledge of Algebra factoring solving basic equations and some Pre Calculus This book will teach you everything you need to know about high school Exponents Logarithms What makes this book unique is that the end of the book has the FULL SOLUTIONS to the practice questions Therefore if you get the wrong answer you can know where you went wrong This comprehensive book about Exponents Logarithms contains 8 chapters Exponent Laws Changing Base Solving Exponential Equations Logarithms Laws of Logarithms Solving Logarithmic Equations Applications of Exponential Equations Exponential Logarithmic Functions **Introduction to Logarithms and Exponentials** Simone Malacrida, 2022-12-17 The theoretical assumptions of the following mathematical topics are presented in this book logarithmic functions exponential functions hyperbolic functions Each topic is treated by emphasizing practical applications and solving some significant exercises *Exponential and Logarithmic Functions* Charles C. Carico, 1974-01-01 **A Simple Approach to Logarithm** Samuel Adegboye, 2023-05-25 This is an Easy to understand Guide and self teaching Practice workbook on Logarithm It consist of lots of examples on Logarithm and common Logarithms ranging from basics to advance The book will also enhance your knowledge in mathematics Learn more and Increase your math skills on Rules of Logarithms Logarithms Equations Simplification of Logarithm Equations Common Logarithms Operations of Common Logarithms Antilogarithms Exponential Functions **Exponential and Logarithmic Functions** Michael Wheal, 2000

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