


# Logarithmic Equations Maze

**Directions:** Find the solution to each equation to "find the log" and solve the maze. SHOW YOUR WORK!

<b>START:</b> $\log_3 81 = x$ $3^x = 81$ $3^x = 3^4$ $x = 4$	5	$\log_{27} x = \frac{1}{3}$ $27^{1/3} = x$ $\sqrt[3]{27} = x$ $x = 3$	3	$\log_5 x = 2$ $5^2 = x$ $x = 25$	25	$\log_{32} x = \frac{1}{5}$ $32^{1/5} = x$ $\sqrt[5]{32} = x$ $x = 2$
4	-4	64	-64	-25	0.1	2
$\log_8 x = \frac{1}{3}$ $8^{1/3} = x$ $\sqrt[3]{8} = x$ $x = 2$	2	$\log_4 x = 3$ $4^3 = x$ $x = 64$	12	$\log_9 x = \frac{1}{2}$	3	$\log 0.01 = x$ $10^x = \frac{1}{100}$ $10^x = 10^{-2}$ $x = -2$
-2	-9	10	6	-6	-2	10
$\log_{\frac{1}{3}} x = -2$ $(\frac{1}{3})^{-2} = x$ $(\frac{3}{1})^2 = x$ $x = 9$	4	$\log_4 256 = x$ $4^x = 256$ $4^x = 4^4$ $x = 4$	$\frac{1}{9}$	$\log_3 x = -2$ $3^{-2} = x$ $x = \frac{1}{3^2}$ $x = \frac{1}{9}$	32	$\log_{\frac{1}{5}} x = 2$
9	$\frac{1}{9}$	5	-9	9	-6	$\frac{1}{25}$
$\log_{16} x = \frac{1}{4}$ $16^{1/4} = x$ $\sqrt[4]{16} = x$ $x = 2$	2	$\log_2 64 = x$ $2^x = 64$ $2^x = 2^6$ $x = 6$	6	$\log_{\sqrt{5}} 5 = x$ $\sqrt{5}^x = 5$ $5^{1/2} x = 5^1$ $\frac{1}{2} x = 1$ $x = 2$	2	<b>STOP!</b> 

# Natural Logarithmic Equation Maze Answers Key

**Project for the Computation of  
Mathematical Tables (U.S.), United  
States. National Bureau of Standards.  
Computation Laboratory**

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Petroleum Abstracts ,1972      *Logarithms* Rumi Michael Leigh,2022-10-04 Logarithms Things You Should Know Questions and Answers explains logarithms through a step by step question and answer format The book covers the laws of logarithms common and natural logs and how logarithms connect with exponents It also includes change of base solving equations and calculator use Exercises with answers allow practice from basic problems to more advanced applications This book will interest students math learners and exam candidates who want to study logarithms in algebra      Table of Natural

Logarithms ,1941      **Table of Natural Logarithms ...** Project for the Computation of Mathematical Tables (U.S.),United States. National Bureau of Standards. Computation Laboratory,1941      **Table of Natural Logarithms ...** United States. National Bureau of Standards. Computation Laboratory,1941      **Exponential and Logarithmic Functions** Kenneth F. Klopfenstein,2003      **Attacking Problems in Logarithms and Exponential Functions** David S. Kahn,2015-09-30 This original volume offers a concise highly focused review of what high school and beginning college students need to know in order to solve problems in logarithms and exponential functions Numerous rigorously tested examples and coherent to the point explanations presented in an easy to follow format provide valuable tools for conquering this challenging subject The treatment is organized in a way that permits readers to advance sequentially or skip around between chapters An essential companion volume to the author s Attacking Trigonometry Problems this book will equip students with the skills they will need to successfully approach the problems in logarithms and exponential functions that they will encounter on exams

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Logarithms without a Calculator Peris P Sitanggang, 2021-03-04 The value of a logarithm can be converted into a b form without pressing the logarithmic button on the calculator or without using a logarithmic table example  $\log 2$  693157188 2302618337 How do I get this value Find out how in this ebook      **Six Place Logarithmic Tables** Webster Wells, 1891

*Logarithmic and Trigonometric Tables [to] Five Places* Kaj L. Nielsen, 1968 Common logarithms of numbers with the auxiliaries s and t Natural logarithms of whole numbers from 1 to 200 Logarithms of the trigonometric functions from 0 to 1 and 89 to 90 for every second and from 1 to 6 and 84 to 89 for every ten seconds Logarithms of the trigonometric functions from minute to minute Natural trigonometric functions from minute to minute Values of haversines Logarithms of haversines Degrees minutes and seconds to radians Radians to degrees Table of constants Powers and roots Natural logarithms from 0 to 9 99      **MTH-5107-2, Exponential and Logarithmic Functions and Equations** Serge Dugas, 2008      Exponential and Logarithmic Functions Kenneth F. Klopfenstein, 2000-01-01      **Introduction to Logarithms** Adrian

Harrison, 2019-08-02 Introduction to Logarithms This book is a part of Easy mathematics series which was prepared by Adrian Harrison to help students enhance their knowledge of math This series of books include the pre calculus and calculus topics Introduction to logarithms was written for those people who are interested in learning logarithms and do not have necessarily previous knowledge of it This book adopts a simple and practical approach to describe the logarithm and has been prepared for the beginners to help them understand the basic concepts of it There are an explanation examples with solution and working test part which will help you to enhance your knowledge of mathematical thinking DEFINITION PROPERTIES INVERSE OF A LOGARITHM FUNCTION TEST WITH SOLUTIONS WORKBOOK TESTS

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