


Logarithmic Equations Maze

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

START: $\log_3 81 = x$ $3^x = 81$ $3^x = 3^4$ $x = 4$	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	STOP! 

Natural Logarithmic Equation Maze Answers Key

Flamingo Math

Sabine Zange



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An Elementary Treatise on Logarithms, Illustrated by Carefully Selected Examples William Henry Johnstone (M.A., Chaplain of Addiscombe.), 1859 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 Short Logarithmic and Other Tables William Cawthorne Unwin, 1897

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