

Logarithmic Equations Maze

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

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