


Logarithmic Equations Maze

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

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