

Logarithmic Equations Maze

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

START:

$\log_3 81 = x$
 $3^x = 81$
 $3^x = 3^4$
 $x = 4$

$\log_{27} x = \frac{1}{3}$
 $27^{\frac{1}{3}} = x$
 $\sqrt[3]{27} = x$
 $x = 3$

$\log_5 x = 2$
 $5^2 = x$
 $x = 25$

$\log_{32} x = \frac{1}{5}$
 $32^{\frac{1}{5}} = x$
 $\sqrt[5]{32} = x$
 $x = 2$

STOP!

The maze consists of a grid of boxes connected by paths. The boxes contain logarithmic equations and their solutions. The paths are indicated by lines connecting the boxes. The maze starts at the top-left box labeled 'START' and ends at the bottom-right box labeled 'STOP!'. The boxes are arranged in a grid-like pattern with some connections branching off.