Math 104Q

Group Project on Log Equations: Puzzled by Logs?

Cut out the squares, and rearrange them so that touching edges match equation to its solution.

$\log_{10}0.001 = x$	$\log_{27}x = 2/3$	$x = 50$
$\log_x 10 - \log_x 5 = 1$ $\quad x = 8$	$\ln e^{11} = x$ $\quad x = e$	$x = 51$ $\quad x = 100$
$\log x^2 + \log x = 3$	$x = -1$	$x = 2/5$
$x = 10$	$x = 7$	$x = e^2$
$\log_2 2^x = 5$ $\quad x = 11$	$x = 1/2$ $\quad x = 5$	$\log_x 5 + \log_x 2 = ½$ $\quad x = -2$
$x = 0$	$\log_2 2 = x$	$x = -3$
$x = 2/3$	$x = e^3$	$\log_2 x + \log_2 5 = 1$
$\log_{\sqrt{5}} \frac{1}{5} = x$ $\quad x = -7$	$\log_{\sqrt{2}} x = 6$ $\quad x = -1/2$	$x = 3$ $\quad x = 2$
$\ln x^2 - \ln ex = 2$	$x = 9$	$\log_x \sqrt{7} = 1/2$