

ContourPlot[$0.4 * n * (0.7 * (log2(100 * n^1.5) - x) + 1) == 2^x, \{n, 1000, 1000000000\}, \{x, 535\}$]

Input interpretation:

contour plot

 $0.4 n \left(0.7 \left(\log_2 \left(100 n^{1.5}\right) - x\right) + 1\right) = 2^x$

