

Logarithmic Equation

DS1

Solve for x.

1) $\log_4 (x+3) + \log_4 (x+3) = \log_4 49$

x =

2) $\log_7 \left(\frac{x-3}{6} \right) = \log_7 \left(\frac{3}{x-10} \right)$

x =

3) $2 \log_3 (x-4) = \log_3 4$

x =

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5) $\log_2 (x-5) + \log_2 (x-)$

x =

7) $1 = \log_4 \left(\frac{x+20}{x+8} \right)$

x =

8) $\log_5 (x+1) + \log_5 (x-1) = \log_5 3$

x =