

Logarithmic Equation

MS3

Solve each logarithmic equation.

1) $\log_3 (x-12) = \log_3 5 + 2 \log_3 3$

x =

2) $\log_2 (x-4) + 3 \log_2 2 = \log_2 (6x+4)$

x =

3) $\log_2 (5+x) + \log_2 \dots = 2 \log_7 5$

x =

5) $\log_3 12 = \log_3 (x+2) + 2 \log_2 6$

x =

7) $\log_6 x - 2 \log_6 2 = \dots = \log_2 12$

x =

9) $\log_4 (x+4) + \log_4 2 = \log_4 (3x-7)$

x =

10) $3 \log_8 x - \log_8 7 = \log_8 49$

x =

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