

Logarithmic Equation

MS4

Solve each logarithmic equation.

1) $3 \log_2 x - \log_2 6 = \log_2 36$

x =

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

x =

3) $\log_5 (x+3) + \log_5 \dots = \log_7 (3x-4)$

x =

5) $\log_2 x^2 + \log_2 8 = \dots + 4 \log_8 2$

x =

7) $\log_4 (11-x) + \log \dots - \log_6 6$

x =

9) $\log_5 (x-2) - \log_5 4 = \log_5 (2x+3)$

x =

10) $\log_3 (4+x) + \log_3 24 = 4 \log_3 6$

x =

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