

Logarithmic Equation

MS1

Solve each logarithmic equation.

1) $\log_2 (x+3) + \log_2 (x-3) = \log_2 91$

x =

2) $\log_6 x^3 + \log_6 3 = 4 \log_6 3$

x =

3) $\log_5 (x+5) - \log_5$

x =

$6 + 2 \log_3 2$

5) $2 \log_8 x + \log_8 2$

x =

$= 5 \log_2 2$

7) $\log_2 6 + \log_2 (1 \rightarrow$

x =

$) - \log_3 2$

9) $\log_4 (x-4) + \log_4 5 = \log_4 (3x-2)$

x =

10) $\log_6 x - \log_6 3 = 2 \log_6 5$

x =

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MS1

Solve each logarithmic equation.

1) $\log_2(x+3) + \log_2(x-3) = \log_2 91$

x = **10**

2) $\log_6 x^3 + \log_6 3 = 4 \log_6 3$

x = **3**

3) $\log_5(x+5) - \log_5$

x = **95**

$6 + 2 \log_3 2$

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5) $2 \log_8 x + \log_8 2 =$

x = **6**

$5 \log_2 2$

7) $\log_2 6 + \log_2(1 \rightarrow$

x = **-5**

$) - \log_3 2$

9) $\log_4(x-4) + \log_4 5 = \log_4(3x-2)$

x = **9**

10) $\log_6 x - \log_6 3 = 2 \log_6 5$

x = **75**