

Logarithmic Equation

DS3

Solve for x.

1) $\log_5 (x-7) + \log_5 (x-5) = -\log_5 5$

x =

2) $\log_2 (x+1) + \log_2 (x-1) = \log_2 24$

x =

3) $2 \log_8 x = \log_8 (13x)$

x =

) = $\log_4 5$

5) $2 \log_3 (x-6) = \log_3 4$

x =

7) $\log_6 (x+3) + \log_6 (x-4) = \log_6 8$

x =

8) $2 \log_3 x = \log_3 (3x-2)$

x =

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Solve for x.

1) $\log_5 (x-7) + \log_5 (x-5) = -\log_5 5$

x = **7**

2) $\log_2 (x+1) + \log_2 (x-1) = \log_2 24$

x = **5**

3) $2 \log_8 x = \log_8 (13x)$

x = **1, 12**

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5) $2 \log_3 (x-6) = \log_3 4$

x = **8**

7) $\log_6 (x+3) + \log_6 (x-4) = \log_6 8$

x = **5**

8) $2 \log_3 x = \log_3 (3x-2)$

x = **1, 2**