

Logarithmic Equation

DS2

Solve for x.

1) $2 \log_3 x = \log_3 (12x-36)$

x =

2) $\log_2 (x-11) + \log_2 (x-2) = \log_2 10$

x =

3) $\log_7 \left(\frac{x+12}{x+6} \right) = 1$

x =

6) $= \log_4 24$

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

x =

2)

7) $\log_3 (x+2) + \log_3 (x-3) = \log_3 14$

x =

8) $2 = \log_2 \left(\frac{x+8}{x+5} \right)$

x =

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DS2

Solve for x.

1) $2 \log_3 x = \log_3 (12x-36)$

x = **6**

2) $\log_2 (x-11) + \log_2 (x-2) = \log_2 10$

x = **12**

3) $\log_7 \left(\frac{x+12}{x+6} \right) = 1$

x = **-5**

6) $\log_4 24$

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

x = **2**

7) $\log_3 (x+2) + \log_3 (x-3) = \log_3 14$

x = **5**

8) $2 = \log_2 \left(\frac{x+8}{x+5} \right)$

x = **-4**

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