

Logarithmic Equation

ES3

Solve each logarithmic equation.

1) $\log_2 (x+4) = 2 \log_2 8$

x =

2) $\log_4 (4x-2) = \log_4 (2x+34)$

x =

3) $\log_6 5x = \log_6 75$

x =

4) $\log_5 (7x+3) = \log_5 (8x-32)$

5) $2 \log_3 4 = \log_3 (x-1)$

x =

7) $\log_3 (3-2x) = 2 \log_3 (x+56)$

x =

9) $\log_5 74 = \log_5 (x-1) + \log_5 (3x-37)$

x = x =

11) $\log_7 (x+13) = \log_7 (2x+3)$

x =

12) $\log_6 (3x+12) = \log_6 3$

x =

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Logarithmic Equation

ES3

Solve each logarithmic equation.

1) $\log_2 (x+4) = 2 \log_2 8$

x = **60**

2) $\log_4 (4x-2) = \log_4 (2x+34)$

x = **18**

3) $\log_6 5x = \log_6 75$

x = **15**

4) $\log_5 (7x+3) = \log_5 (8x-32)$

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

x = **-4**

7) $\log_3 (3-2x) = 2 \log_3 (x+56)$

x = **-39**

9) $\log_5 74 = \log_5 (x-52)$

x = **68**

11) $\log_7 (x+13) = \log_7 (2x+3)$

x = **10**

12) $\log_6 (3x+12) = \log_6 3$

x = **-3**

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