

Logarithmic Equation

ES2

Solve each logarithmic equation.

1) $\log_6 2x = \log_6 68$

x =

2) $2 \log_3 5 = \log_3 (x+46)$

x =

3) $\log_2 (x+7) = 3 \log_2 3$

x =

4) $\log_5 (3x+7) = \log_5 (4x+15)$

5) $\log_4 (7x-3) = \log_4 15$

x =

7) $\log_7 (2x+17) = \log_7 5$

x =

9) $\log_2 (x+5) = 4 \log_2 3$

x =

11) $\log_3 (1-4x) = 2 \log_3 7$

x =

12) $\log_4 (3x-15) = \log_4 (x+67)$

x =

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Logarithmic Equation

ES2

Solve each logarithmic equation.

1) $\log_6 2x = \log_6 68$

x = **34**

2) $2 \log_3 5 = \log_3 (x+46)$

x = **-21**

3) $\log_2 (x+7) = 3 \log_2 3$

x = **20**

4) $\log_5 (3x+7) = \log_5 (4x+15)$

5) $\log_4 (7x-3) = \log_4 29$

x = **29**

7) $\log_7 (2x+17) = \log_7 3$

x = **-14**

9) $\log_2 (x+5) = 4 \log_2 3$

x = **11**

11) $\log_3 (1-4x) = 2 \log_3 7$

x = **-12**

12) $\log_4 (3x-15) = \log_4 (x+67)$

x = **41**

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