

Logarithmic Equations

Solve each logarithmic equation.

1) $\log_6 7x = \log_6 56$

x = _____

2) $\log_3 (6x-9) = \log_3 (2x+83)$

x = _____

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

x = _____

5) $\log_5 (x-1) = \log_5 (x+3)$

x = _____

7) $\log_3 (x-1) = \log_3 (x+3)$

x = _____

x = _____

9) $3 \log_7 5 = \log_7 (3x+23)$

x = _____

10) $\log_5 (x-4) = 4 \log_5 3$

x = _____

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