

**Logarithmic Equation**

Natural Logarithm: S3

Solve each logarithmic equation. Round the answer to two decimal places.

1)  $\ln(x - 7) = 1.08$

x = 

2)  $\ln 12x = 2.09$

x = 

3)  $\ln(x - 4.1) = 0.29$

x = 

5)  $\ln\left(\frac{x}{0.9}\right) = 3$

x = 

7)  $\ln(x - 0.18) = 2.4$

x = 

9)  $\ln(x - 0.4) = 0.09$

x = 

10)  $2 \ln(x + 3.8) = 0.5$

x = 

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**Answer key****Logarithmic Equation**

Natural Logarithm: S3

Solve each logarithmic equation. Round the answer to two decimal places.

1)  $\ln(x - 7) = 1.08$

$x = 9.94$

2)  $\ln 12x = 2.09$

$x = 0.67$

3)  $\ln(x - 4.1) = 0.29$

$x = 5.44$

5)  $\ln\left(\frac{x}{0.9}\right) = 3$

$x = 18.08$

7)  $\ln(x - 0.18) = 2.4$

$x = 12.12$

10)  $2 \ln(x + 3.8) = 0.5$

$x = -2.52$

9)  $\ln(x - 0.4) = 0.09$

$x = 1.49$

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