

Logarithmic Equation

Common Logarithm: S3

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

1) $\log_2(x - 5) = 0.24$

x =

2) $\log_3 2x = 1.8$

x =

3) $\log_8(x - 1) = 0.7$

x =

5) $\log_8\left(\frac{4.2}{x}\right) = 2$

x =

7) $\log_9(x - 7) = 0.2$

x =

9) $\log_5(x - 2) = 0.1$

x =

10) $3 \log_4(x + 8) = 0.9$

x =

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Answer key**Logarithmic Equation**

Common Logarithm: S3

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

1) $\log_2(x - 5) = 0.24$

$x = 6.18$

2) $\log_3 2x = 1.8$

$x = 3.61$

3) $\log_8(x - 1) = 0.7$

$x = 5.29$

5) $\log_8\left(\frac{4.2}{x}\right) = 2$

$x = 0.07$

7) $\log_9(x - 7) = 0.2$

$x = 8.55$

10) $3 \log_4(x + 8) = 0.9$

$x = -6.48$

9) $\log_5(x - 2) = 0.1$

$x = 3.17$

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